

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-B1

<400> 8935

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tctggctgtg tactacaagc aatcctagta ctcttcttc tcgtttctac tattacacat 180  
tatacatatt ttcttttttt ttgcttattt cttttttccc ttattttttt aatttattat 240  
ttttattctt tttatataat tttatttttt taatctatct tattaatatt tattatggta 300  
ggtattttata ttttttttta tatattttat ttattttttt atttttatat ttataatttt 360  
ttatattttt cttttttatt ttaatttata tttttttttt tatttttttt ttcttttttt 420  
tttattattt tattttatta ttattttt 448

<210> 8936

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G6

<400> 8936

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caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg 180  
gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc ggcgagcgtc 240  
ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac aatacaaacc 300  
atcgcaacgc aacagcaaca acagttccta ccaacactga gccacctagc catgggtgaac 360  
cctgtcgctt acttgcaaca gcagctgc 388

<210> 8937

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E8



<400> 8937

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cacaagctcc tatagcttct cttcttcccc catacctctc accagcgttg tcttcagtat 180  
gtgaaaaccc aattcttcaa cctacagga tccaacaggc aatcacagca ggcattctac 240  
ctttatcacc cttgttcctt caacaatcat cagccctatt acatcaatta cct 293

<210> 8938

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E9

<400> 8938

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acgtctcgct ctgcatcacc ctgctgaacc tgaagccggg ctctgcggac taagccctct 180  
tcgccaacgc ctccaagatc acgccgtcag cgggcggcaa ccctgcgagc gacagcgccg 240  
cgggcagcgg cgtcaagctc cgggctgggg tcagcggcgg cgtcgcgcgg gggcgtgtct 300  
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<210> 8939

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F1

<400> 8939

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tgttatttat cttgtttgaa aagccctttg attgcaatca taaattgtca tataattcca 120  
acattgattt ctattcttat atttttttat tttttattaa ttttattttt atttttattt 180  
attattttta tttattatat ttttatttct ttattttttt tttttttttt tttttatatt 240  
attatatttt tttttatttt tattttattt tttttttttt tttttttttt tattttattt 300

ttgtgtgtgtt tttttatttt ttttttttct ttttttattt tttttttttt tttatttttt 360  
tattatttta attctttatt tataattttt ttttttttat ttttt 405

<210> 8940  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F11

<400> 8940

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ctcctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca atgtgtgaaa 180  
accaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240  
cacccttggt cctccaacaa cgtcagccc tattacagca gttacctttg gtccatttgg 300  
tggcacataa catcatggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360  
actctcaaca acatcaagtt cttccattca accaactggc tgcattgaac 410

<210> 8941  
<211> 335  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-054-Q1-K1-F12

<400> 8941

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gtatctacta tgaactgatg attcgatatt acttgcacaa caatgattac ctggaaatct 120  
gtcgttggtta caaggctatt tatgatatcc cagcaataaa ggaagatcca accaagtgga 180  
taccgattct taggaagatc tgttggtact tgggtgctagc acctcatgat cctatgcaat 240  
cgagccttct caatgctaca ctagaggata aaaacctatc agagatgggg gatttcagga 300  
tattgctgaa gcagctgggt accatggagg tcatt 335

<210> 8942

<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F2

<400> 8942

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ctgccgcctc gctccggggc tgggtgggacg atgtcaacga gtcgccccag tggcaagacg 120  
gggccttctt ctccctcgcc gccgcctacg ccctcgtctc cgccgtcgca ctgattcagc 180  
tcgtcaggat ccagcgccgg gtgcccaggt tccgatggac cagcgagaaa gtcttcacc 240  
tcatgaactt ccttgtcaat ggggtccgtg ctctggtgtt cggcttccat gtccatgtct 300  
tcctccttcg cacataagta tacaagttgg tgttgctaga tctccccgt tgggtggtt 359

<210> 8943  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F3

<400> 8943

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catgccatct ggggtccggc ttccggcatc caccaggcgt caatacgggt cagcgagcag 120  
cgagcagcaa gtcaccgagc agccgagcga ccgccgagca cagggcacca ccgagcagcc 180  
gagccaccgc cgagcaccga gtcttctctg ttcttctgtg gcgaacaagg tcaatccagg 240  
gccgtggtgc ggggtgctgt ttttttttcc aacatgttta tgttggtcgc tcgaccgctg 300  
caacaatgaa gatacagaaa gcaaatgcag gtgtccttac aaacttcgaa gtccttgact 360  
tcttgccgtc aagagggtgcc aaaattgac 389

<210> 8944  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F6

<400> 8944

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 tatggagtgg ttgggcagca tcaccacca gaactccatg tacaccacc agtctgacaa 120  
 gacatccatg tcacaggaac tgtctc 146

<210> 8945  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F8

<400> 8945

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 aatgggtgaac gttcctaaga ccaagaagac ctactgcaag aacaaggagt gcaagaagca 120  
 cactctccac aaggttactc agtacaagaa gggtaaggat agcctgtctg ccagggaaa 180  
 gcgccgttat gaccgcaagc agtcaggata tgggtggccag accaagcctg tcttccacaa 240  
 gaaggccaag accaccaaga aaatcgtggt gaagctgcag tgccagagct gcaagcacta 300  
 ctcacagcac gcaat 315

<210> 8946  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F9

<400> 8946

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300  
 ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
 gtagctctgg caaacctttc tcctactct cagcaacaac aatttcttc 409

<210> 8947

<211> 105  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-G10  
  
 <400> 8947  
  
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 tgtgtgatca tgtcttgcat catcttcaag ttcaactggt tcttc 105

<210> 8948  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-G11  
  
 <400> 8948  
  
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 ttatggggta gtgctgcaac ctgacatcgc agaccaaacac atctggcgcc tctctgctca 120  
 tggactttat tgtagcaaat cggcctatga tgctctcttt gttggctcta tcccttttgg 180  
 cccttggcga cgtgtctgga agacctgggc ccccttaaga tgcaaattct ttgtatggtt 240  
 ggcaatcaaa aacagggttt ggacagctga tcgacttgca taatgagggg 290

<210> 8949  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-G12  
  
 <400> 8949  
  
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 ctccttggtc tttctgcaag tgctgtacc gcaaccattt tcccacaatg ctcacaagct 120  
 cctatagctt cttttcttcc cccatacctc tcaccagcgg tgtcttcagt atgtgaaaac 180  
 ccaattcttc aaccctacag gatccaacag gcaatcgag caggcatctt acctttatca 240  
 cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt gcatttggtg 300  
 gcacaaaaca tcaaggcaca acaactacaa caacttggtc taggaaacct tgctgcctac 360

tctcagcaac agcagtttct tccattcaac caactggctg cattgaactc tg 412

<210> 8950

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G3

<400> 8950

attccccgtc taccaccct cgcactttat tatgaccatg catatatttt gttcatacca 60

cacatgataa 70

<210> 8951

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G4

<400> 8951

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tttaattaca acttataagc aatctaaaat agggcaccac caatgatgtg ttgttggtag 120

gatgctgctt tgtttttcaa attcaatatt taaaatttc ttcaattggt atttttttta 180

attttttttt tatatatttc aatttctttt aatttttttt ttttcatttt tttttat 237

<210> 8952

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-G5

<400> 8952

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ttcccacaat tctcacaatc tctatagct tctttcttc ccccatacct ctccaccatct 120

atttcttcag tatttttaaaa cccaattctt caaccctaca ttatccaaca ttcaatctca 180

tcatacatct tacctttatc accctttttc ctccaacatc catcatccct attacat 237

<210> 8953

<211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D1  
  
 <400> 8953  
  
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 gaaggttccg gcggcttcca gtgatgtgtt cgccacagaa cgagcagcac ctgctgcagg 120  
 aacaaacact taacaacaat gctcgtcctc cggagaagag gcagcggggt ccgtcggcgt 180  
 ataacagatt catcaaggaa gagatacgca ggatcaaagc gaacaacccc gacattaacc 240  
 acagggaagc cttcagcacg gcagccaaga attgggcaca ttatccaaac atccatttcg 300  
 gtttaaacga ctccgggcga gaaggcaaga ag 332

<210> 8954  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D11  
  
 <400> 8954  
  
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 cttgaattgg aaattgccaa aagtgcgctg actgaactta agaaggaatg cggtgaagca 120  
 atggagactc aactcaagag ggaggagttt caagatgagg agatgcctga tgtcaggaaa 180  
 ttggacatca gaaacttcct gtaggcctga tcgacgataa tctttgaggc ccaacgcacc 240  
 tctggtttag gtttcaagtt gatcgggtgct tcatacctat taatgct 287

<210> 8955  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D12  
  
 <400> 8955  
  
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 agctgttact ggatctgtgc cacctccaag atgtgggcat tcggcaacca tgattgagaa 120

gagactcctt atatttggag gcagaggtgg agcaggacca ataatgggtg atttatgggc 180  
 tttaaagggt attactgaag aagacaatga ggcgccaggt tggacacagt tgaaacttcc 240  
 agggcaatct cccttaccac gattcgggtca ttcattatca tctgggtgggg ggtatctatt 300  
 gctttttgga tgactattgt atctgtttt 329

<210> 8956  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-D3  
 <400> 8956

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 gcagctggcc accaaggcgg cgcgcaagtc ggctccggcc accggcgggc tgaagaagcc 180  
 gcacaggttc cgccccggca ccgtcgctct ccgcgagatc cgcaagtacc agaagagcac 240  
 ggagctgctc attcggaagc tgccctttca gctgctggtg cgtgtgatcg 290

<210> 8957  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-D5  
 <400> 8957

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 catacaagcg gcagctgcgg ctgccagcca ccgccgcggg ttcattctacc gccgccggtg 180  
 catctgccac ctccggttca cctgccacct cctgtgcac tcccaccgcc ggtccacctg 240  
 ccgccgcggg tccacctgcc accgccggtc catgtgcgc cgccggttca tctgccgccc 300  
 ccaccatgcc actacctac tcaaccgccc cggcctcagc ctcatcccca gccacacca 360  
 tgcccgtgcc aacagccgca tccaagcccc tgccagctgc agggaaacct cggcgttggc 420  
 a 421



<210> 8958  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D6

<400> 8958

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cttattaata ttggcaccaa atcaaatctg caacatcaat tatctaactc caaaaaccat 120  
gaatctgggtg cttgtgggtc ttgctttcat tgctttaata tcaagtgttt cttgtacaca 180  
gacacgcagc tgtatctttc atcaacaaca aattcatcat catctacatc atccacatca 240  
acatcatcca caaaaacatc aacatcaact acaaccacaa catcatcatc atcagcgaca 300  
tctacaacaa cattttcaca ttctacctca tt 332

<210> 8959  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D7

<400> 8959

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ataaataaaa aaaatagaaa gaaaaaaaaac aaacaaaaaa aaaaaaaaaa aacacaaaaa 120  
cactccctcc cctctacata ttccatcttt actccccctt cctttcaaca tcttccctct 180  
tctatacctc cccctaattt catttcacct ccttcctttt caaaatttct caccttcaaa 240  
acccttctct tcccccaacc tattctcctt tcttcaattc ccccttttcc ca 292

<210> 8960  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D8

<400> 8960

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gtaaaggggc cgtggccgca gtgactggaa gaacgcgatg atcgggggcg ccttgtccgg 120  
 cgccctgata tccggcgcca gcaacagcta cagaggcatg gtcgtctagg actccatcac 180  
 cgtctgcgcg gttgccacag ccgtttatct cattatctgc attacctatc tgttctttta 240  
 tcatctgcat ttttattttt attgtcttgc ttttttttta tttttttctt ggggggtggt 300  
 ttttttttta tttatttttt tttttatttt tttttttttt ttattttttt ctttttttat 360  
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<210> 8961  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-D9

<400> 8961  
  
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 tctggggcct cggttcgggc gtgccgtcca tggccatgct actcgcgctc gccatcttcc 120  
 tgctcggcac gaggacctac aggttctacg gctcccgcgg tgggtgctgtt tccaattcca 180  
 gcttcttttt tattttttat tattttatat tatatttttt atttatatta tttattttatt 240  
 tatttttttt ttattttatt ttattttttt tttttttttt tatattttatt gggggggggg 300  
 tttattttatt tattttttta tttttttttt tattttttat tttttataat tttttttt 357

<210> 8962  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-E1

<400> 8962  
  
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 gtgatcaacc aagtagctct ggcaaacctt tctccctact ctccgcaaca acaatttctt 180  
 ccattcaacc aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca 240  
 ttagccagc tagctactgc ctactctcaa caacaacaac ttcttccatt taaccaattg 300

gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta 360  
gctacagcaa gccgtgcttc cttcttgaca caacaacagt tgctgccgtt ctaccagcaa 420  
tttg 424

<210> 8963  
<211> 351  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-E11  
<400> 8963

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accttgttgg tgaggatgac cagaagctgg ctgaaggaat tagtctgctc tctgtctctt 120  
cggaaaaccg tgaaaaacca gctgttcttg ggaaattgat taaggaacat gcaaaagggtg 180  
gcaagtgcac tgtttttaca caaacaaaaa gggatgcaga tagattgtca cacaatatga 240  
gtcgaagttt ccaatgtgag gcgcttcacg gggatatctc tcaatctgaa agagagagga 300  
cactggcagg atttcgggat gggcggttta atatattgat tgttactgat g 351

<210> 8964  
<211> 231  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-E12  
<400> 8964

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caaatggccg cagtgaaccc cgcttcttat ttgcagcagc aaatactact accatttagc 120  
cagctagctt cagcaaaccg tgcttccttc ttgacacagc aacagttgct gcctttctac 180  
cagcaatttg cggctaaccc cgcaaccctc ttacaactac aacaaattgt g 231

<210> 8965  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-E2

<400> 8965

cgcacgcgtc cgggcaattg cagaatgcga cgacgtgaag agcaaaaacc cggatgggtg 60

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gagcaaaaag gagaaaaaga agcaaaagca gcacgagaaa gaggaatggg agggaaacca 180

cccatggaag ccatgggacc gggagaagga tctgtctgct gggcgccaga atgtggcctt 240

agacgcagag aacatgtcgc aaggattatc ttcccgtttc gcgtctggtg ctgttcagcg 300

gaacttcttg tgagctgtgt ggaaagatac tcctggagca tggctaatc gatgatcaat 360

gtccagttat tacaatctgg tccgcagatg gcaaagaata tgcttacata taaaaa 416

<210> 8966

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C9

<400> 8966

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agttaccttt ggtccatttg gtggcacaaa acatcagggc acaacaacta caacaacttg 120

tgctagcaaa ccttgctgca tactctcagc aacatcagtt tcttccattc aaccaactgg 180

ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagccag ctagctgctg 240

cctaccccca gcaatttctt ccattcaacc aactagcagc attgaactct gctgcttatt 300

tacagcagca acaactacta ccattcaacc agctagctga tgtgagccct gctgccttct 360

tgacacaaca acaa 374

<210> 8967

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E3

<400> 8967

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tgtatttgct aactccaatt caaacagctc gatgggtgct cctgtcctgg agaacaatgc 120

tgttgatctc actgatgggc tgacagatctt ggaatcctat atgagggttc ttatggatgg 180  
 cgggtgcaagt gattcaattg atagccttct gaaccttgat ggatcacagg atcttggttag 240  
 caatatggac ctctggacct tcgatgacat gcccatcgct ggcgatttct tctgaggaat 300  
 ttgaagcttg gccataggac tatgtacata gggactaggg aataaagact gggagattgt 360  
 gaagcacctg cttggcacct tgtggttagca tatgctcgtg tctagc 406

<210> 8968

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E4

<400> 8968

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 tcaaatttga acaagaatga tcgtctggat catttggtga tctataccat gtgacgtact 120  
 gtactcaaaa tgtacctatc aaagtactca agccttagcg tattagcggt gatattctac 180  
 gtgagtatcc acagcaagat tatataatga cacaattttt taacactaca gtattccact 240  
 ttatttcacc attcacatca catccttatt actctattat caccaacaat aatcattcca 300  
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<210> 8969

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E5

<400> 8969

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 gcggatgctc gagccactac tgcaccagca caaactagta ttgagtgcag catgttttgc 180  
 agttcggaca gggaatacgt ttttggttcc cctactgtgg atcgactatg ccagggtggat 240  
 aggcttacag tacgctcaag catgggtaca catatgcagt tgctctgagt ggcagcaata 300  
 ttgttacttc gtaattttat attatcactc ctttcttcaa ctggcaagtt ctcttttgct 360

tatatgtggtt actttttat

378

<210> 8970

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B11

<400> 8970

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aatattttgc ctgcttatgc tccttgggtct ttctgcaagt gctgctacgg cgaccatttt 120  
cccgcaatgc tcgcaagctc ctatagcttc ccttcttccc ccgtacctct caccagcggg 180  
gtcttcggta tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc 240  
tggcatctta cttttatcac cttgttccct ccaacaatca tcagccctat gacaacagtt 300  
acctttgggtg catttattgg cacataacat cagggcacia caactacaac aacttgtgct 360  
agcaaaccctt gctgcctact ctcagcaaca gcattttctt tcatt 405

<210> 8971

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B5

<400> 8971

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ccagagccat gcggtgcttg cctccagga ggctgctgag gcataccttg ttggcctggt 120  
tgaggacacc aacctgtgcg ccatccatgc taagcgtgtg accatcatgc caaaggacat 180  
tcagctggca aggaggatcc gcggcgagag ggcctaatacg ccacctcaaa catcgtgaca 240  
aaaacatgaa gtccctgggggt tattgttaat ctggtgccat tgtaaggaca tatgagtagg 300  
gtttgttttg ttgatcgcaa gtttctcttt tgctactggt gctgctacct ttgctgatgt 360  
tattgctagg ttcttattcc taagttaact a 391

<210> 8972

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B7

<400> 8972

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gtcgccgcca tggatgaagta ctgcgaggag ccgggcaacc ctaccaagtc ggctaaggcc 120

atgggcaggg atctgagggt ccacttcaag aacacaaggg agacagcctt tgcgcttcgc 180

aagttgtctt tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca 240

attcccttcc ggagatactg tgggggtggt tgttattttt ttttaatctt aa 292

<210> 8973

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-B9

<400> 8973

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ataactgccg cttgatctgt agctcgaagg gtttcaagga cgggtggctgg tgtgacgaaa 120

gcgtggagca caaagtgtgc tgctgctccc attagaaata taatagcgta tgttatgttg 180

atgcatatat atatgcatca tccatctacc tgtgtggtgc aaaattctga ataaaacctg 240

aataaaacct gattgagcac ataaaataaa a 271

<210> 8974

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C1

<400> 8974

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gttcgatccg tggccggtct tcttccgccg ggagtggaag cgcaattggc ccttcctcac 120

ggggttcgcc atcaccggct tcacatcac taagatgacg gccaaacttca ccgaggagga 180

cctcaagaac tocaagttcg tccaggagca caagaagcgc tgaccaacca agtgttgtcc 240

gaattgacctg tctggacagc cagttatggt atgctgtttg aatgaaaaat tagcttcttt 300  
 ttcttcatct aaatgcgtgc agcctatgct ccatctgtaa tgtaataaga ggcaactgac 360  
 ttgatccaaa agctaccagc ttctgattat gaatgatact tcaagtttt 409

<210> 8975

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C10

<400> 8975

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 ggatgtttgc gacgagtga ggttggtcac acatcgaggt ggatctatgg gcagatatat 120  
 attccagaaa taaattggat tcttatgggt ctttgtgttg ctgtcactat tgcatttcgt 180  
 gatactactc ttatcggcaa tgcctacgggt attgcctgca tgactgctat gttcgttact 240  
 acattcttga ttgcttttat aattaatatt gtttgtcatt tgggtggtggg ggtgtatatt 300  
 attttttttt atatttttgt aattatttta ttttataaat attatttatg tttttttttt 360  
 atatattttt tttatttttt tttttttttt attttttttt a 401

<210> 8976

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C11

<400> 8976

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 tgtcaacggc ctgagttaga gcatctaccg atgactaagg cggtcggaa gatactttat 120  
 gcagctgatg caaaggattc accgctacct gaggcgaatg atataatcac aaagtcacca 180  
 agcttgttct caaatgaaac cgagtgagat gtgcggctac atgagctaatt tttggtgctt 240  
 atttccatc attgacgtc ttagttttta gttttttttt ttgggggggg ggtttgtttt 300  
 tttttttttt gttttgtttt tttttttttt tttttttttt ttttttttgt tttttttttt 360  
 tttttttttt tttttttttg tgtttttttt tttttttgtt ttttt 405



<210> 8977  
 <211> 184  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C12  
  
 <400> 8977  
  
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 gtttcctcac gcggaanaag agtccggctg caaccggat gttggcggcg ataagactcc 120  
 ggcaacgaaa cacctcactc aggactggcg cttgcctatg accaccaaag cctgcttttg 180  
 gggt 184

<210> 8978  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C2  
  
 <400> 8978  
  
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 gttcctctgc agcgatggcg atcaagcgga ccaaggcgga gaagaagatc gcgtacgaca 180  
 agaagctgtg cagcctgctc gatgagtaca ccaagggtgt catcgccctc gccgacaacg 240  
 tcggttccaa gcagctccag gacatccgcc ggggcctcat gggcgactcg gtggtgctca 300  
 t 301

<210> 8979  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C4  
  
 <400> 8979  
  
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 tgtctcctt gccctccttg ctctttcagc aagcgtgct acctcgactt ttattccaca 120

atgctcacia caatacctct ctccggtgac agccgcggga tttcaatacc caactataca 180  
atcctacatg gtacaagagg ccatccaagc aagcatctta cggtcattag cattaaccct 240  
ccaacaacca tatgctctat tgcaacagcc atccttagtg catctgtatc tccaagaat 300  
cgcggcacia caactacaac aacagttgct accaacaatc aatcaagtag ttgcaacgaa 360  
ccttggtgct tacctcgagc aacatcagtt tcttccattc aatcaactag ctggggtgaa 420  
ccctgctt 428

<210> 8980

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C5

<400> 8980

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tcttctcgtc tgctgttttc gtcgcggcgc ttcacctcta cgcgcggtgc ctctgcagc 120  
ggcgcgtcgc cctcgcgga ggcagccctc gcgtggtcgc gctgcagcgg cagctcccgc 180  
cggacggcta cgtggttgag gtcgttctta tttttcttat acttcttcgt tttcatttta 240  
ttatttttat ttttttttat tttttt 266

<210> 8981

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-C6

<400> 8981

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aatcccaaac aattaccatt tcatgaagtt gcacaagatt accaggaggt tgacagtgtc 120  
attccggaga gcaatgaaaa tcaggaccgg cttttcactg gagatgcaac ccatcaggtt 180  
tcatcgaatg attgttatga agctggaatt ggtatcgcgt cagaggccag taacatcatt 240  
cacaatgatt taccagaaga atcagccgct gctgatttcc cgggtggtgat acctgatg 298

<210> 8982

<211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-054-Q1-K1-C7  
  
 <400> 8982  
  
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 gtactgtagt aataatgtaa tggagccgct ggctagctac ctagctcgct agtttactca 120  
 tttagcggcg atgagtaacg tagtgtcacc catcaccatg ggtggcagtg tgagcaatga 180  
 cctgaatgaa ccattgaaat ggaaaggaat aatatataag gaaaaaagat gattggaaac 240  
 tgataaaatt aataatttaa attataataa ataaatttta atattt 286

<210> 8983  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G5  
  
 <400> 8983  
  
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 aggagggaag gtatccttca agatcaccct cacctccgac cccaagctcc ctttcaaagt 120  
 gttcagcgtg cccgaggcgg cgcccttcac cgcggtgctc aagtacgccg cggaggagtt 180  
 caaggtcccg cccagacca gtgccatcat caccaacgat ggaattggca tcaaccccca 240  
 gcaaagtgca ggcaacgtgt ttctgaaaca tggttcggag ctgcgtctca tccctcgca 300  
 tagagttgga gctgtagtca tgtcttcggt ttagaggata tatacagtcc aatgcataat 360  
 gagcaaaact tgagagaaat aaagctttga tgttggcctt gcttggct 408

<210> 8984  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G6  
  
 <400> 8984  
  
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cacaaaggaa agaatactaa aaaatcaaac aaaaaaaaaa aacacaaaca aaatgccaac 120  
ctgtacaaag tacccaagcc tacatacctt cacctccgag ctcaaatacg ccacatagga 180  
gcacaaaaac ccaacccaca ccacttccat caacaccaac gatacaataa aaaccaaccc 240  
ccaaccaaac tcaatcaact tgcatacaca acatctttcg caacttcgcc tcatacctaa 300  
caatacagta ccaactgcac tcacgaacag cggctaaacc atatatacaa taaaaa 356

<210> 8985

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G7

<400> 8985

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ctggtgacct tgctccatta gatggcatgg ttcggcgcca caatcacctg cgcattgcac 120  
agtaccatca gcatcttgcg gacaagctgg atctggacat gccggctctg gcttacatga 180  
tgaaggaata ccctgggacc gaagaagaga agatgcgagc tgctgttggc aggtttggcc 240  
tatcaggaaa ggcgcaggtg atgccaatga ggaatcttct tgatgggcaa aggagccgtg 300  
tcacttttgc atggttggca tataggcagc cgcaactgct actgctcgat gagccgacaa 360  
atcatttggc cattgagacc attgactccc tggcggaggc actgaatgaa tg 412

<210> 8986

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G9

<400> 8986

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gtggagaagc tggtttgagat cgaccctgat ggtaccgtgg tcgctctggc tgacatgatg 120  
aggaagaaga tctcaatgcc tgcccacctg atgtttgacg ggcaggacga caagctgttc 180  
gagcacttct ccatggctgc gcagaggctt ggcgtttaca ccgccaggga ctacgccgac 240  
atcctcgagt tctctgctga cagggtggaag gtggcgagcc tgactggtct gtcgggtgaa 300

gggaacaagg cgcaggacta cctttgcacc cttgcttcaa gaatcaggag gctggaggag 360  
 agggcccaga gcagagccaa gaaagccggc acgctgcctt tcagctgggt ata 413

<210> 8987  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H11

<400> 8987

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 ttcagggtcat tgctcacact gacactgcc a cccatgggtga tgcgtgacac attattactc 120  
 aatcatcgcc gctaaatgac tcaactagct agctagccag cggctatact acagcacccc 180  
 tatcctgggc cattgcttca agttcctgag gcatcactgc agcctgactg caactcccta 240  
 ctgct 245

<210> 8988  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H12

<400> 8988

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 gaactctgct gcttatttgc aacaacaact accattcagc cagctagctg ctgcctaccc 120  
 ccaacaattt cttccattca accaactggc atcattgaac tctcctgctt atttacagca 180  
 gcaacaacta ctaccattca gccagctagc tgggtgtgagc cctgctgcct tcttgacaca 240  
 acaacagtta ttgccgttct acctgcacgc tgcgcctaac gctggcacc tcttacaact 300  
 gcaacaattg ctgccattca accaacttgc tttgacaaac ccagcagcgt tctaccaaca 360  
 acccatcatt ggtgggtgcc tcttttagat ttcttatgag ttatagttca ataataaagt 420  
 tttt 424

<210> 8989  
 <211> 416  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H5

<400> 8989

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gacgctgggg cgtccaagac ctacccgcag caggctggca ccgtccgtaa gaacggcttc 180

atcgtcatca agaaccgtcc ctgcaagggt gtggagggtt ctacctcaa gactggtaag 240

catggccacg ccaaatgcc a tttgtcgcc atagacatat tcaatgggaa aaagcttgaa 300

gatattgttc cttcatcaca caactgtgac attccgcatg tgaaccgtac tgagtatcag 360

ctgattgata tttctgagga tggatttgtg agccttctta cttcagatgg caacac 416

<210> 8990

<211> 170

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-H7

<400> 8990

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tgttgcaaga aggcgttaat gtttccaca acctgtgggt aaaatggcag cggtcgcgtg 120

ggcggtcgcg tagttaattt tgtggtatat gtagnttatt gaatgggaaa 170

<210> 8991

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-H8

<400> 8991

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ggaatcgcaa agagggccgt ctcacccgag ttaaggaagc catggagcac aaggaggctg 120

ggtgccaggc ccccgaggga cccatcctct gcatcaataa ctgtggcttc ttcggcagcg 180

cggcgaccat gaacatgtgc tccaagtgcc acaaggagat gataacgaag caggatcagg 240  
 ccaagctggc tgccctctct atcgacagca tcgtgaacgg cagcgacgcc gtcattggagc 300  
 cggttggtgc tggcagcaac acggtagtag ctgttgccca agtcgagttg caaacaatga 360  
 acgtgcagca gcccgctgat gttgccggac ccagcgaggn ggtggcggcg atctccaaag 420  
 gggg 424

<210> 8992  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H9

<400> 8992

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 acggcggcca agtccgccga gaaggacaag gggaagaagg cccaatctc acgctcctcc 180  
 cgcgccggcc tccagttccc tgttggacgt atccaccgtc agctgaagca aaggactcag 240  
 gcaaatggac gtgttggtgc caccgcagcc gtctactctg ctgccatcct ggagtatttg 300  
 actgccgagg ttctggagct ggctgggaat gctagcaagg atctgaaggt gaagcgtatc 360  
 acccctcgcc atttgcagct agccattcgt ggagacgagg aactggacac cctcatcaaa 420  
 ggca 424

<210> 8993  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-A1

<400> 8993

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 acaagctcct atagcttctt ttcttcccc atacctctca ccagcgggtg cttcagtatg 180  
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcgacgagc gcattctacc 240

tttatcacc ttgttctcc aacaaccgtc agccctatta cagcagttac ctttggtgca 300  
 tttgttgga caaacatca aggcacaaca actacaaca cttgtgctag gaaaccttgc 360  
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 t 421

<210> 8994  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-054-Q1-K1-A2  
 <400> 8994

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 caaaaattga tgaacaaata tgctgtcttg gaagcagcaa aaaaggcaaa agagtctggg 180  
 agcaccggtt tttgcatggg agctgcatgg agagaaacca ttggcaggaa atcaaacttc 240  
 aaccagattc ttgaatatgt caaggaaata aggggtatgg gcatggaagt ctgttgca 300  
 ctaggcatga tagagaatca acatgctgaa gaactcaaga aggctggact tacatcatat 360  
 aatcataacc tagata 376

<210> 8995  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-054-Q1-K1-A4  
 <400> 8995

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 gcatatgatg ctagagcagc agtgcatacc cggggcagaa aaggcgcagg atgcttcaac 120  
 cgctgcagat gaattgaggt caccttctga gattccagaa tcttctagag tcaaggaagt 180  
 tccagaaaac agtcaaatg gatcaaccaa gcaaacaaaa taagctaagg gccgatgaag 240  
 ttgcaagcat gaaatgtgtt tcatgatccg attggctggt tccaggctta aatcaagtgg 300



tttttgcct ttcttgggaa cagatttact ctatagttaa ttttcttgct aaatctgtct 360  
agttctatatt actaggtatt tttttttttt tttcttttct ttatttttt 409

<210> 8996  
<211> 236  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-054-Q1-K1-A5  
  
<400> 8996

cggacgcgtg ggattcctga tatcatctat tcgttggcca gatgattaga gggctggaaa 60  
tatattaaga acaataccat agagagaagt tcctcagtgc tctcgcagct taaggagcaa 120  
acagcaacac ttacttcgt tttttatact ttattatagc cgcactgttt attactcggg 180  
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<210> 8997  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-053-Q1-K1-G4  
  
<400> 8997

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tgatccctcc ttgcgcttct tgcgcttttt gcgagcgcaa caaatgcgtc cattattcca 120  
caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt tacttcaatg 180  
gccttogaac acccagctgt gcaagcctat aggtacaac aagcgattgc ggcgagcgtc 240  
ttacaacaac caattgcccc attgcaacaa caatccttgg cacatctaac aatacaaacc 300  
atcgcaacgc aac 313

<210> 8998  
<211> 408  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-053-Q1-K1-F1  
  
<400> 8998

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ggaggttaag gttggttgaa gttccaggga aaagaacctc tttaccggg gtacccaaac 120  
cttcaaaata agaattttct ggtagattgc aagagaatca cgagaacacc cagccaagta 180  
ataatcataa cgattcagta gatcagagtc aactgcccc ttcttcaagc cctactgaga 240  
gtacagatga aatttcacga gaagacgaag aaaataatga taaagagaac atggatccaa 300  
gcgctcagaa taatgatgta cataactcttg aacacctnca acaagccatc ggaggaaact 360  
cacgtccaga tgatgctatc ttaaaggatt ttctagatga tgaagctg 408

<210> 8999

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F11

<400> 8999

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aatctggaaa gctacagcag gaaaaattga tggccttgta tctggtatcg ggacaggagg 180  
taccatcacc ggtactgggc gatacctcag agagcaaaat cctaattgtca agctctatgg 240  
tgtggagcca gtggagagtg ctgttttgaa tgggtgaaaa cctggaccac acaagattca 300  
aggaattgga gctggtttta tccctggagt cttggatgtt gatctccttg atgaaactct 360  
acaggtttca agtgatgaag ctatcgagac tgccaaggct cttgctctga aag 413

<210> 9000

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F5

<400> 9000

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gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta ccagcagttt 180

gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 240  
 ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgccct cttttagatt 300  
 gcttattagt tgtaattcaa taataaagtt ttttggatga tgtatgtggc caaccagaaa 360  
 taagaagtta catttccaga ttct 384

<210> 9001  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-053-Q1-K1-F6  
 <400> 9001

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 ccgttaaatac agccaggctc atcctggatt tgctgaagaa tgctgagagt aacgctgatg 120  
 tgaaaggctt ggatgtggac aacctctatg tttcacacat ccaggatgaat caagcccaga 180  
 agcagaggcg ccgcacctac cgtgctcacg ggcgcatcaa tccctacatg tcctcacctt 240  
 gccacattga gctgatcttg tcagagaagg aagagcctgt gaagaaagag gctgacaaca 300  
 ttgtcgcagc aaggaagcag tgaagtatat cagcatgctg atcgaggcca ttttgtcgaa 360  
 gtattatagc cgtagctctt ttatgtacct tttcaggcag ctttgcctct cgagacg 417

<210> 9002  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cgcgcgcatac tacgcccgtg aagaagaagc tgaaggacca gaaggcggct gcggcaaaca 120  
 tgggtgtgtg cagcttctcc atggcgcggg tgccggcagct gatgcgggcc gaggacccca 180  
 ccatccgcc ttccagttag gctgtcttcc tcataataa ggcttcagag ttcttcttgg 240  
 ggaagtttgc agaggatgct tatcacaatg ccgcgaagga tcgtaagaaa tccattatct 300

acgataatct ttcaacagct gtttccagcc agaagactnt aaagttcctt tcagattttg 360  
taccgcagag agttgcagcc gaagatgctt tgaagacaat gacgagcaac aact 414

<210> 9003  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F8

<400> 9003

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taatctggac tggactgac cagaccagtc acttgagaag gagaatgcgg catttgaaca 120  
ggcaatgata ctagctggaa gtgaatttat ggagagggtt cgcttccatg ttaaatacatg 180  
gttaccggca aggtctattg tcctggagtg tttgttatca aaaggaaaca ttgatccaag 240  
tggagaaatc ttgggttttg atagattctg cccgtggaaa cttcatttat ttgagcttga 300  
agaggagctg aagactgac ctctgaccaa gtatgtgctg tatcaggatg agaggagcaa 360  
gagttggcga gtccaagcag tcgcagttgc tcctgacagg ttcgagagcc gaaaggct 418

<210> 9004  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-F9

<400> 9004

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tataagatcc agttttggaa tacaggctcg gcaggaaatg taaaacaga gtagctcggg 180  
ctccggtttg acgccaaga ctcagctcgc ggtggcagct gcagattctg cagggtgcca 240  
tcgtgacgca atactcgcgt tggcatcctt caacttgtct agccagagat tggatatcagg 300  
cagcagagac ggcgctgtca aagtgtggaa atagcttctc cagcatgggg taagattaca 360  
agtccacagg cgtgtacata ttttggcctg tctagtgtc atacagtaca ta 412

<210> 9005

<211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G1  
  
 <400> 9005  
  
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 tgtgccgccg ccggttcatc tgccgccgcc accatgccac taccctactc aaccgccccg 120  
 gcctcagcct catccccagc cacacccatg cccgtgccaa cagccgcatt caaacccgtg 180

<210> 9006  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G10  
  
 <400> 9006  
  
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 taaaaaaaaa acaaaatcat acatgcccggt tctttcttgc tgtttcatgt taacttaaata 120  
 ctttcttgtc tagccatcgc tatacaatgt agtgactgaa attaaattaa ctggccacag 180  
 ttttaataact ttgcttctga taaacctttg cctttctcca atttaattctt tttgcccctc 240  
 atccattttt cttcagatcc cttactatcg ctcatccca aattgttccc cctttaaaac 300  
 ggttccttac cctcattgtc tattggcatt acccccgtcg tgactcatta acttccgcgc 360  
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<210> 9007  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-G11  
  
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 ttaccttttt ggaagcgggt agccccccaa accagcagtg gcaccagctg taagtgtctc 120  
 acctgtgtgt gcaggtgtct cacctgtctg gaaaccacct gctgcaaagc ctgatggcac 180

cagtcagatt gctgctgggg ttaccagcca aaccaataac taccacaggg cgcacgggtca 240  
gaacaccgga aacttcctta cggaccgtcc ttcgaccaag gtccacgctg ctcttggcgg 300  
tggtctttcc ctgggatacc tggttggtgg caactgatgc cgctcaccaa gctatcacc 360  
cccactgtcg cgcgatgctt tttctgaatc gtgaacagcc gttgtcattt catgtgtacc 420  
caaac 425

<210> 9008

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-G12

<400> 9008

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aactagctgc attgaactct gtttcttatt tgcaacaaca acaactacca ttcagccagc 120  
tacctgctgc ctacccccag caatttcttc cattcaacca actggcagca ttgaactctc 180  
ctgcttattt acagcagcaa caactactac cattcagcca gctagctggg gtgagccctg 240  
ctaccttctt gatacaacca cagttgttgc cgttctacca gcacgctgcg cctaacgctg 300  
gcaccctctt acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccag 360  
cagcgttcta ccaacaacc atcattgggtg gtgccctctt ttagatttct tatgagttat 420  
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<210> 9009

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-G2

<400> 9009

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tagcaccttg cttggattca agggaggccc tgctgggata atgaagtga aatatgtgga 120  
gctcacttca gactttgtgt atccctacag aaaccagggc ggattcgata tgatctgcag 180  
tggaaggagc aagattgaaa caccggagca gttcaagcaa gctgaagaca cagccaacaa 240

gcttgatttg gatggacttg ttgtcattgg tggatgatgat tcaaacacca atgcctgcct 300  
tcttgtgaat actntangtc aaggaacctg aagactcgtg ttattgggtg cccaaagact 360  
atcgatggag atctgaaatg taaggaggta ccaacaagct ttggatttga tactgcttgc 420

<210> 9010  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-E9  
<400> 9010

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cgaccagaaa atatccattg atttctacaa ggaaggagat cccttgaaac cagctgtgac 120  
gggcgtctta gtgttcgttt ccaactccaga tccaattggc aacaagtact atcttggccc 180  
tgctcctctg caggatatgg caaggcaaat tgctacagcc aatggcccta ctggctataa 240  
tagggattac ctgttctcaa tggagaaggc attagccagc attagccacg aagatgattc 300  
gatcatagag cttgcaaacg aggtgaggaa ggtgctcaac agaacaagg agaccaagat 360  
cactggtgcc aatgcttcca tgaaatcaca tgcccctctt gtgcacctgt ccgcgctttc 420

<210> 9011  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-053-Q1-K1-D4  
<400> 9011

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accattctgt agttggcctc cgatcttgca tatctgaagg tgctatcata gaggacagtt 180  
tactaatggg tgcggactac tatgagacag aagctgataa aaaactcctt gccgaanaag 240  
gtggcattcc tattgggtatt gggaaaaatt catgcatcag gagagcaatc attgacaaga 300  
atgctcgaat tggagacaat gttaagatac tcaatgctga caatgttcaa gaagctgcaa 360

gggagacaga cgggtacttc atcaaagggtg gaattgtcac agtgatcaag gatgct 416

<210> 9012  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-053-Q1-K1-D5  
 <400> 9012

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 acaaacacac catcaaagtt tgttcattgc attgtttggg cgaaagatct gctttttgca 120  
 aaattatttg gtgataaaaa acaggataat gatcttaatg tgcactccaa agatgatacc 180  
 agttcaaaaa cagatgtttt tgaaaggagt gtagatgaag atcttgagca atacaccag 240  
 agaatatatg accacgtatt tggttacaac attgaagttg cattggataa taaggaaact 300  
 tggaagaatc ggagaaagcc aaaccctatt tacattagag atgcattgcc tgaagacgct 360  
 gttcaacaaa atggctcgctc tcaggatcac gtgaatgagg agcaagatcc ttct 414

<210> 9013  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-053-Q1-K1-D6  
 <400> 9013

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 ctacgctttt ttttatttca gtgcgcgcgt gtctgtctca gacggtgctg ctgcgcccag 180  
 tccttgacga tgtgcggctg ctgaccgcac gacgaggtcg tggctctgaag gtagcggtag 240  
 acccacgcca gcacagccac cgcagccacg ccgaaccctc ccgacgaaac gatgcctacc 300  
 gtgagcagcg ccaccgtgat ggccgccggc accagcacgg ggctgaagat caccatcaat 360  
 ggcgtcgcca cgatgagcgc cagcacctgt cccgtcaccg tcagccccga caacaac 417

<210> 9014  
 <211> 164  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D7

<400> 9014

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tttactttct tatgattttc acacacggcc taataatctt gctaaggccc tgattgaatg 120  
gaaaatattt ttggggagtt ttaggaaaat actacatttt tgtg 164

<210> 9015

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D8

<400> 9015

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ctccccgtgc tgcttcaactg aggaacccgc cacagccagc acgccaggct cctcctccag 120  
ctcctgttcg agatgggtggg ggctccatgt ttggaggaat tgggtccacc attgctcaag 180  
gtatggcggt tggcacgggt agtgccatgg cacacagggc tgttgactct gtattaggctc 240  
cccgaccat ccagcatgag actcttgcca cagaagctcc tgctgctgcc cctgctgctc 300  
cagcgatgaa tgctgatgct tgcagcttcc attctaaggc tttccaagat tgtctcaaca 360  
actatggcag cgagatcagc aagtgccagt tctacctaga catgctgaac gagtgccg 418

<210> 9016

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-D9

<400> 9016

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ttgctgcata ctctcaacaa catcaatttc tttcattcaa ccaactgggt gcattgaact 180  
ctactgctta tttgtaacaa caattaccat tcatccatct agttgttgac taccacagc 240

aatttcttac attcaaccaa ctatcaacat tgaactctgc tgcttattta cagcagcatc 300  
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<210> 9017  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E1

<400> 9017

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attaaggcac ctttctattc tgggttgccc ttaactacct gtgaattggt accagtgggt 180  
acctcttggg gttctgtggt cccgcgatgt tgcagttggt tgcttgatcg aaagatgttt 240  
cagcctccca tctgctagct atgatacaga tggttcctga taataatgat gacatattct 300  
gtg 303

<210> 9018  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E10

<400> 9018

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ccctataggt gtaaaggaag gcagtcttgt tgggaagtat gaatctcttg ttcaggttac 180  
tgtcataccg aagggaagg agcaagcatc acggaagag aaagacttta cctctacctc 240  
accaagtggg gtaacggata agctacaaga ggtgcttaaa agagtaaaga gcacgaccag 300  
gcctggaatt tacgacgacc tttatgggga ttctattgcg acaaaagtgg gctcatcttg 360  
ggcgtacaaa tcagatgate tgtcagacaa agcccagcct gttgaggaga agacacttgg 420  
catggattca aac 433

<210> 9019  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E11  
  
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 catacctgac atcaaaattt caagtttgct agatgaagaa tacgaagagg aagaatgtca 180  
 agaccttcgg ctgctggcca agaatgaatc ctttaaaagg cctactgttg gggatctaga 240  
 ggagaaagca agaagtttac gtagggagat agtgaatcat tggatcagta aagaactcca 300  
 gaggctagaa agattaattg acagggcgag tgagaaaggt tggcgcaagg aaaagtttga 360  
 ataccttgat aagaaacaac tcttgcgcaa gccatctgaa caacaacgtt tacttg 416

<210> 9020  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E12  
  
 <400> 9020  
  
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 ctaaagggtcc atcgggagaa gaatatgcat ggtaccagtg cacagtgaat ggtggacgtg 180  
 atagccgagc tataggagca tatgaactag cgaaagctgt ggaagaattg ggcgcaggag 240  
 aaatacttct taactgcatt gattgtgatg gccaaggttg tggatttgac atagatttgg 300  
 ttaaaatggt ttctgatgct gtgacaatcc ctgtcattgc gagcagtggg gctggagctg 360  
 ttcaacattt ttctgaaatt tttgagaaaa caaatgcttc tgctgccctt gctgctggca 420  
 ttt 423

<210> 9021  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E3

<400> 9021

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cgcaccatca ccgtcaacaa ggccaatccc cgcgggcgcc gtggaggcgg cggcggtggg 180  
tacggtggtg gccgtggagg cggcggctac tgcggtggcg gtcgccgtga tggcggtggc 240  
ggctacggcg gtggcgggcg ctacggtggc ggcgggcggt acggtggtgg tggcgggcg 300  
tacggcggtg gcaaccgtgg cggcggctac ggcaactccg acgggaactg gaggaactga 360  
tcggtggggc ccgcgcggcc aagttatcct gttcgctacc gtgatgttta ccct 414

<210> 9022

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E4

<400> 9022

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aatacagttt tcaaggcaat gagaagacac agggttgagc ctgaccttg ctcttataca 180  
actatggtct tagcttatgt aaatgcatct gaaatgaatg gagctgagaa attctttcgt 240  
aggattaaag aggatggtct gaagcccaac gttgtggttt atggcactct gatgaaaggc 300  
tattcaaagt taaataatct tgagaaagtt atgcctgtgt a 341

<210> 9023

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-E5

<400> 9023

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tgcgtgtcca ccacgaacag gaactttccg ggcaggatgg ggcacaagga agggcaaadc 180  
 tacctggcgt ctccctacac tgcggctgcc tcagccctga cggggtacgt tacggacca 240  
 agggacttcc tcatgtaacg tcttgaaca acaacagatt tcatgatgta acagagtggc 300  
 tgtactgctg tttttcgtgc tgaacttttg tctagggatg tccttcgttg agaaataaac 360  
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<210> 9024  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-D3  
  
 <400> 9024

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 gccaatgct ctggcgaacg taactgcata ccaacaacaa caacagctgc aacagtttat 120  
 gccaatgctc aatcaactag ccatggatga ccctggcgct taactaacaa taccttcatt 180  
 taaccccgct ccgggtggga atgcaactaa ctacctacca caacagttgc tgcaacaaat 240  
 tgtaccaact ctgactcagc tagctgtggc aaacctgct gcctacttac aacagttgct 300  
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<210> 9025  
 <211> 109  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-B8  
  
 <400> 9025

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<210> 9026  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B9

<400> 9026

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tcggcggcct cgcctggggc acggacgacc actccctcca caacgccttc agcacctacg 180  
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240  
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
aggagctgga cggccgcaac atcacctca acgaggccca gtcccgcggc ggccgtggag 360  
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<210> 9027

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-C1

<400> 9027

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ggaatggttt tgatatcggg gagatgctta aggatgatgg aaagcgatcc acataatgca 180  
ngtggagccg acgctggcat gggacagccc tggatatctg atgagctgga ttcgagtgtc 240  
ttagagagca tgctccagcc ggagccggag ccagagccag agccattcct gatgtctgaa 300  
gaaccggaca tgtttcttgc tggcttcgaa agcgtggtt tcgtcgaggg tcttgagcgg 360  
ctaaactgaa tttctg 376

<210> 9028

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-C10

<400> 9028

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aaccttgtgt gttgcctcaa cagggaaaag aaccgtctgt gttgcctcaa ccgggaaaag 120  
aaccgtctgt gttgcctcaa cagggaaaag aaccttctat gttgcctcaa cagggaaaag 180  
aaccttctgt gttgcctcaa ctgggaaaag aaccttctga gttgcctcag cagggaaaag 240  
aatcttcagg agatatctct gtgaatcaga aggaccctct taaggagatg aatggctttc 300  
ctgaacagga aaaaggactt gttgctggag aacttgtctc tgcacatcat aaggaccctc 360  
taatggatat tacagatgca ttgaaatga ntaaaaaaca 400

<210> 9029  
<211> 363  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-C11  
<400> 9029

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggccgcac tttttaaaaa ttcaaagttt 180  
acttacccat aattgcaact ttataacttt tttatagttt aaccaaattt aaattcattg 240  
accatatttt taaaacgtca ttattggaaa aaccttgtct ttaccaaat aaatctcttt 300  
tcaaaaaatc ctcttttttc aattttactt attacccaaa atgcccaaac tcattacctt 360  
ttc 363

<210> 9030  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-C12  
<400> 9030

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gaatcatgag attttgtatc atttgcagga tgtctttaat ctccttccaa atctgaacgt 120  
aaatgagcta attaaagcct ttgcagtga aacaaacgac atgatgttgg taatatatct 180

gtcttctctg atccggagtg tcattgcgct tcacaatttg atcaacaata agatgctaaa 240  
caaggagcat gagaaggctg aggattcgaa accagccgcc attccaactg ctgccggtgg 300  
agggggagct aatgaactt ttgatcactt attgatggcc aagaaaaagg aggaaacgtg 360  
attgcatgtt tatcacggtt gtgctggaac caaatcgctt tgacctgaa tggatatattt 420  
catggttact tcacgta 437

<210> 9031  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C3

<400> 9031

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cgagcgccat gttccagccg ctccggcaac agtgctgccg gcagcagatg aggatgatgg 120  
acgtgcagtc cgtcgcgcag cagctgcaga tgatgatgca gcttgagcgt gccgctgccg 180  
ccagcagcag cctgtacgag ccagctctga tgcagcagca gcagcagctg ctggcagccc 240  
agggtctcaa ccccatggcc atgatgatgg cgcagaacat gc 282

<210> 9032  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C4

<400> 9032

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ccagataaga tgattgtcgt ttcacggttg aagtggatgt ataactgctt gcttccattc 120  
tcatcgagcc gtttgccacg cctctagagc agtgagcaac tgaacgtcgt gtgttgcat 180  
ttggataaag attttgacac ggatacctgg aactctggaa gggtttattgg ttctctatgt 240  
cggaaggatg gttctttcat gccacaaga tgttctgtag attttagcag agctggatga 300  
agcatatcgg aagggggcag attgggtgga tgcagtatcc accgagcc 348



<210> 9033  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C5

<400> 9033

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tgcaaccgcc actagtgcta cccatatccc agggcacttg tcaccactac tgatgccatt  120
ggctaccatg aacccatgga tgcagtactg catgaagcaa caggggggttg ccaacttgct  180
agcgtggccg accctgatgc tgcagcaact gttggcctca ccgcttcagc cgtgccagat  240
gccaatgatg atgccaggta tgatgccacc gatgacaatg atgccgatgc cgaatatgat  300
gccatcgatg atggtgccga ctatgatgtc accaataacg atagctagta tgatgccacc  360
gatgatgatg ccaaacatgg tttcaccaat gatgatgccg agtatgatgc ct          412
  
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<210> 9034  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C7

<400> 9034

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gctaccaaga tattatccct ccttgcgctt cttgcgcttt ttgcgagcgc atcaaattgcg  120
tccattattc cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca  180
gttacttcaa tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt  240
gcggcgagcg tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta  300
acaatacaaa ccatcgcaac tcatcagcaa caacagttcc taccagcact gatccaccta  360
gccatggtga accctgtctc ctacttgcaa cagcagctgc ttgcatccaa ccc          413
  
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<210> 9035  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-C8

<400> 9035

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gattcatcgt cgtcgcgcgac gatttggatg ctaccgcga cgattcggat gtcgcgcgcc 180

tggatttggc ctccgccacc ctggatttgg cctccgcgcg tcccgattcg gcgctgccaa 240

ccccgaaatg gcgcgcgcgc ttcccttcc cttccctta tgtcatcttg ttgattctta 300

cctaggcggc ggggacgcct tggatcttcc gggcgtctga acgcctaggt gacgccttta 360

aaacaggggg gaatttgttc ccacatatta cttgcagtca aagatcgaca acttagtt 418

<210> 9036

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D1

<400> 9036

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tggcttgtgt ctcaagggat ctcatcggtt actggttctt tgaaggtcga tgggtgcctc 120

aatggggatg tgaacgaatt ccaaaccaac ctggttcctt aaccgaagat ccacttcatg 180

cctctcctct acgcaccggt gatctcttct gcgaaagcct tccacgagca gctgtctgtg 240

gcggagatca ccagcagcgc gttcgagccg gcttccatga tgggtcaaag cgaccacagg 300

cacggcaagt acatggcttg ctgcctgatg taccgcggcg acgtggtgcc caaggacgtg 360

aacgccgcgg tggccacat caagacgaat cgcaccatcc agttcgtgga ctggt 415

<210> 9037

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D11

<400> 9037

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ctgttaccgg caagaccgt atcctcgacg tgggtctaaa tgcataaac aatgagcttg 120

tgaggacaca aacccttggtg aagagtgcc a ttgtgcaagt tgatgctgcc ccattcaagc 180  
 agtggtagct cactcactat ggagttgaca ttggtaggaa gaagaaaacc cctgctgcaa 240  
 agaaggataa tgctgagggg caagaggttg aggcagcagc tgaggaaacg aaaaagagca 300  
 accatgtcac gaggaagctt gagaagcgca aggagggagc tacccttgac ccacacattg 360  
 aggagcaatt tggcagtggg cggttgctgg catgcatttc t 401

<210> 9038

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-053-Q1-K1-B7

<400> 9038

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 cgcaaagcaa agcgtccccc accatggctt ccacgacgac gacggcatcc aacaacctgg 120  
 cgggcgtgtg gctcggcgag ctctcgtcgg cgctgcatgg gacgtggcag gcggtggccg 180  
 tggccgccac ccacgggctc ggcgaggacg acgaccgcgg gctgccgtgc cagcagcagc 240  
 agaggccgtg gcgaggcgac gacaggagca gcagcaacaa caaggcgttg cgaggagccg 300  
 cggcgggccg gacggacagg cgggaggggg acgtcgcgag gtgcggcggc gccatgtccg 360  
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<210> 9039

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-D12

<400> 9039

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 tccgcaagat ggccaaggct gtgaaaaacc aggttagtga caactactac aggcctgatc 180  
 tgaccaagcc agctcttgct aggctaagct cgggtgtaccg cagcctccag gttgccaaagt 240

ccggtgtcaa gaagaagaac aggcagtcct aagcgctaag tttgtgttct gtcagggggc 300  
atgttggtgc tcgtagtccc agcttatatt tatctatgtt ccaacagttg agacttggtta 360  
gaactgagca aaccatggtta agatgctgct gtgtgtcatt ccttaaaaaa attgccttgc 420  
actt 424

<210> 9040  
<211> 296  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-053-Q1-K1-D2  
<400> 9040

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cttcaaaagg ccttcaccgg ggaaataaat gccttcttct tttaccacaa ccaccgccgc 120  
ctaatectcg aaccgccgtc ctgtctccgt gctcgcgget gccagcgcca gcgccgttac 180  
cttctgcgtg ccgggggtgg ccatacccgca caaccgcctc ccgagctgcc gctggtacgt 240  
gaccagccgg acctgcggca tcggggccgcg ccttccgtgg ccgagctga agagga 296

<210> 9041  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gttcaaacad cactgcctta tggagcgtaa gaaattaggc actggccaga gtgagcaaat 180  
gaactcactg tatcgcttct ggatcatacta tctgagagat aattntaatg aagatatata 240  
caaggatfff aagaaactcg cactggagga tgctgcagcg agctacagat atgggtctcga 300  
gtgtctattc agatfffata gttatggfff ggagaanaaa ttccaacca atgtatatga 360  
agatfftcgag aaacttaact tcgaattcta ccgtaatggt gatctttatg gactcgaaa 419

<210> 9042  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A3

<400> 9042

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cgaccaacat ggagcagcag cagctacttt caactccgta tctggaacat ccatgtctgc 180
acctcacctc agcggcatcg cagctgtcat caagagcgca caccctgact ggtcgccggc 240
ggtgatcaag tcggcgatca tgacgacggc ctatgtcgtg tatggtaaca aaaaaacca 300
gccgatctta gacgagcagc tcagtccggc gagccatttc aacgttgggg cgggacatgt 360
caacccttcg caggctgtga gcccaggcct ggtgta 396
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<210> 9043  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A4

<400> 9043

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caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 180
caactgtcta cactgaaccc tgctgcttat ttgcagcaac aacaactact accattcagc 240
cagctagcta ctgcctactc tcagcagcaa caatttcttc catttaacca attcgccgca 300
ctgaaccctt ctgctaattt ccagcagcaa atactactac catttggcca gctagctaca 360
acaagccccg cttccttctt gacacatcaa ca 392
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<210> 9044  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A5

<400> 9044

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agctcctata gcttcctttc tttccccata cctctcacca gcggtgtctt cagtatgtta 180

aaaccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240

atcaccccttg ttcttccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 300

gttggcaciaa aacatcaagg cacaacaact acaacaactt gtgctaggaa accttgctgc 360

ctactctcag caacagcagt ttcttccatt caaccaactg gc 402

<210> 9045

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A6

<400> 9045

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caaaatacta aaaaatacta aaaaaaaaaa aaaaaaacta ataactaac ataaattcac 120

tacatttgat tactgtttta accttgtcta tcaactgact cttaatccta caaaccacca 180

aatttcaatc taccttaata ttacattaat agcatctcag gctaacaccg ttgcggactt 240

gccaacccctt gctcacccctg aattacattt gctacactcc atttaccttt gcatca 296

<210> 9046

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A7

<400> 9046

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tccatccagg agatgttccg gaggggtgagc gagcagttca ctgccatgtt caggaggaag 180

gctttcttgc actggtacac gggcgagggc atggacgaga tggagtccac cgaggccgag 240

agcaacatga acgacctcgt gtcggagtac cagcagtacc aggacgcgac tgccgacgag 300  
gaggagtacg aggacgagga ggaggtgcag gccgatgaca tgtgagggga gggctgttat 360  
cgtgtgaagc cttgtggtcc tagggcaagc ggacctcgat gaggttc 406

<210> 9047  
<211> 418  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-053-Q1-K1-A8  
  
<400> 9047

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aaaactacat cgggtgctag ctccgacggt ggtgcgtgcc ctgttgacga tagggcacgc 180  
ggggcgcggg cagcttgtaa gcgttcgatc ggccatgtag ggcaactata catctttggc 240  
aggtctccaa ctctccatca tcctccgtgg gagagaagat ggtaatggag tgcgtgtgta 300  
tgtatgtgta tgcccagggc gcgcgcgcgc ggctctgggc gaggcacagt agagatgcaa 360  
tatcatgtat ccagtatctt tcttacaaca canacagtga gaaattatta gtagaaaa 418

<210> 9048  
<211> 134  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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aataatgcaa acagaacaaa atttaaaaat aaactaaata taaaaaaact aaaaatacta 120  
aaaaacataa ataa 134

<210> 9049  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B10

<400> 9049

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gggtggcggag atgtcgacgc cggcgaggaa ggcctgatg cgggacttca agcgccttca 180  
gcaggacccg cccgccggca tcagcggcgc gccgtacgac aacaatatca tgctctggaa 240  
cgccgtcata ttccggccgg atgacacgcc gtgggatgga ggcacgttca agctgactct 300  
gcaatttaca gaagattacc ccaacaaacc tccaactgtt cggtttggtt cgaggatgtt 360  
tcattccaaac atctatgcgg atggaagcat ctgtttggac atctctacaa accagtggag 420  
ccctatatat ga 432

<210> 9050

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B11

<400> 9050

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tttacttctc tatgatttct acacacggcc taataatctt gctaaggccc tgattgaatg 120  
gaaaatattt tttgggagtt ttaggaaaat actacatttt tgtg 164

<210> 9051

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B12

<400> 9051

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gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
aggtcctcga gtccaaggtc cgttcccgtc ccagatccgt ccatgggttc gtccagatct 240



gacctgtcct gacacaccct cgcccggatc tgtccctcct tcccttctcc cctgcagatc 300  
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 gaagcgatgc ggaacgccat 380

<210> 9052  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B2

<400> 9052

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 ttcgtgcaag ccaacaaccg caaggccgaa gcctcgccgg cgcttattgc cgccaagta 120  
 gcgcaacaac tgacggcgat gtgcggtctg gaactgcagc aaccaagtcc ctggccttgc 180  
 aacgcaactg cgggcgggtg ctactactga agaaactatg tactgtagta ataataat 240  
 ggagccgctg actagctacc tatagctagt tcaactcggtt agcggcgatg agtaacggag 300  
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<210> 9053  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B4

<400> 9053

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<210> 9054  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B5

<400> 9054

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cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180  
gcttcagtat gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca 240  
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tcattggtac aaaccatcat ggcaacaacag ctgcagcaac tcgtgctacc agtgatcagc 360  
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<210> 9055

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-B6

<400> 9055

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atcatgctgt acccctaccc ggagtacctg acgcagccgc tgtgcaaccc gctgtccgcg 180  
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<210> 9056

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-A12

<400> 9056

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gaaccaatcc gcgagcgtgt gggcggaac cgcaagcctc ctggcgggtga gagcagcatc 240  
gcgctgattt agcataatcc gggactcagt gtcgaccct agaggaggat ttccaccagc 300  
accaggcagc aggctgttgg atcgtcagtt tgggtgtcttg ttctgatca aggtgcggca 360  
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<210> 9057

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G9

<400> 9057

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cgcatataaa agaacttatac tggagggaaat ctttagcatt taaccggat cctccctact 180  
aatatcaaaa ggatgatgag ttatctgcta gacgcatatg aagatctcta gctccagcgg 240  
acgcaagaac ttatgtcagt gtcagtgtgc gttgattatt tacgtgcggg ttgttgggca 300  
tgcgggcatg ggttgggtgt gcaatagcaa ctctattatg gcttgtgaga gaaacaaac 360  
gtctgtattc attttcaggt gcctgaacc aggcttgtat tataccgctt gactccataa 420  
attattc 427

<210> 9058

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H1

<400> 9058

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aatgttcgat cccacttggg aattcatctg cgcggaag ttcggcctcg accacccta 180

cgtaaccca atggcatcgc cggaggagtg gaggcagctt gggtcccgc gcgtgctggt 240  
gaccacggcg gaccagtgct gggtcgtgga gagggcaagg gcttacgcag agggaatcaa 300  
gaagtgcggc tgggaagggg agctcgagtt ctacgagacc aagggtgagg cgcacgtctt 360  
cttcttgctt aaacacggca gcgaaaaagc cgt 393

<210> 9059  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H11

<400> 9059

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acttcaggag gttgaagact ggctctatga agatggcgag gatgagacca agggagttaa 180  
tattgctaaa ctagaagaac ttaaaaagggt tggatgacct attgagggtgc gcttcaaaga 240  
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agctgcactg tctaaggacc agaagtttga acacatagac atgtcagaaa agcaaaagggt 360  
cattagcgag tggtcgggaag cagagacttg gctaattggag aaaaggcagc agcaggatgc 420

<210> 9060  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H3

<400> 9060

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gactaccctt ggaatgagtt ctgcagcatg gtgcacaaga tcttcgtgta cacgaggagg 180  
gaggtccagc gcatgaacct gggcgccctg aactcgaggc cggaggacag cggcctcgcc 240  
aattcgacgg agaggggctc cgcatctact gctgctgcta gagaagcacc cggctaccag 300  
tccgtctcgt cgcttaactt cgacaactgc tgatgccttg gcagctaact tgtcctccca 360

agtagtagaa gaccaggcat atgtatccat agatctcctt gtagcggaac ctaatgcctt 420  
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<210> 9061  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ctaggttcca ggaagctctt attgttgctg aagcatacaa cataaatcaa cctatagaat 180  
 gggccccagt cttttggaat caaatgctaa aaccggatct aatcgagcaa ttcgtggctg 240  
 agtttgtctc agtgctgccc ctgcagccac caatgcttct cgagcttgca aggttttaca 300  
 gggcggaggt tgcagccagg ggggagcagt cacacttctc tgtctggctt tcacctggag 360  
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 caaggga 427

<210> 9062  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H6

<400> 9062

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 aagcatctgg aggatggccg taccctcgcc gactacaaca tccagaagga gagcacctc 120  
 cacctggtgc tccgcttgcg aggtggtatg cagatctttg tgaagacctt gactggcaag 180  
 accataaacc tggaggttga gagctccgac accatcgaca acgtgaaggc gaagatccag 240  
 gacaaagagg gcatcccccc agaccagcag cgtctgatct tcgccggcaa gcagctggag 300  
 gatggccgca ccctatcaga ctacaacatc cagaaggaga gcactctcca cctgggtgctc 360

cgccttcgcg gtggtcagta agccatgggt catttaagct gctgctgtac ctgggtatct 420  
g 421

<210> 9063  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-H8  
  
<400> 9063

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ccgtgttcga tgagaagggt ctgagcaaag taccagggg tcctgcgaaa gacaagaagc 180  
actagatgca agtgattcga ggtccctgtt agtagggaat gctagcaaaa ccggttcgag 240  
tttctccgga ggggcagcac ttgtgggtgt gaggaccagt ttgccacctg tgcattacgt 300  
tgcgatatggc tgcttagttg tttggtcttg atgggagtaa gccgaattgc tagctttgcg 360  
cttcatcagt gatgcagacg cagcatcacga atttctgtag tgctgtttga gtttg 415

<210> 9064  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-H9  
  
<400> 9064

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gcactcgtgg accttctggt tcgacaacct gcacggcaag aacaagatgg ccgcctgggg 180  
gagctccata cgacccatcc acaccttctc caccgtagag gacttctggg gcctctacaa 240  
taatatccat caccctagca agttgatcgg cggagctgac ttccattgct tcaagaacaa 300  
gattgagcca aaatgggaag atcctatttg tgctaattgg ggtaaattga ccatcagctg 360  
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<210> 9065

<211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 9065  
  
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 gtggattatg cttgcacccc agaagaagtg caacagcatt tccaagcttg tggaactgtc 180  
 aacagggtca caatcttgac tgacaagttt ggacagccaa aaggttttgc ttatgttgaa 240  
 tttctggaac aggaaagtgt tcaagaagct cttaacttga atgaatctga attgcatggt 300  
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 acgtggatta tatccatacc atggctaccc ttatagatca ta 402

<210> 9066  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-A10  
  
 <400> 9066  
  
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<210> 9067  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-G6  
  
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 aaggaccaga agtttgaaca catagacatg tcagaaaagc aaaaggatcat tagcgagtgt 180  
 tcggaagcag agacttggct aatggagaaa aggcagcagc aggatgctct gccaaagcat 240  
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 tgcaagccga tcatgacgaa accgaagcca gttcctaagc cacagactcc gcctccggca 360  
 gaaaccaag ctctgagcc tcagacaccg gagcagcagc gatcaaat 408

<210> 9068  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-F12  
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 tacctgtgcg tgggcgtggt ctctactac tcaactgtca gtagtcagta gtcattctgcg 420  
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<210> 9069  
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 <223> Clone ID: LIB3059-052-Q1-K1-F2  
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agaaccagac cagaaggaag ggcttgggaa ttttcaatta agctggaaaa acttaaaggt 180  
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 ggtatgatgc tgataactgc attgagtcct tatgcaaact ggcttcaagg ctatgctgat 300  
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 ctactataac aaacattaat ttcattacac tctccctcct ttctacaact tcctctctta 180  
 ctaaatccct ttcttttccc aacttattct cctttctaca ctttcaaata ccttcctctt 240  
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<210> 9071  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-F6  
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ctggacggcc gcaacatcac cgtcaacgag gccagtcgcc gcggcgccg tggaggcggc 360  
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<210> 9072

<211> 416

<212> DNA

<213> Zea mays

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<400> 9072

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gtcccttggc tcggagggt atcaaggacc tgatggcgcg tggcctcatc cggttggtct 360  
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<210> 9073

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-F8

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cggcggtctt catggccaac cacttcgacc gccactactg cggcaagtgc ggcctcacct 180  
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gaacatccag ctgttggtta ctgaattgt atctcatgta gatctgtctg aggttgaaac 300  
ttaaatggag cagtagtata tgtcatattg gtaccctgt tactgaattg atgtgatgct 360  
gagtttaatt ttgttttcaa aaaaattaaa cgcagcggct catcttcgcc ggcaagcaac 420  
tcgaggaccg tcgc 434

<210> 9074  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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acctgtgata aaccaagtag ctctggcaaa cctttctccc tactctccgc aacaacaatt  180
tcttccattc aaccaactgt ctacactgaa cctgctgctt tatttgcagc aacaactatt  240
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attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac catttagcca  360
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-G1  
  
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gcaaagtctt actcaaaggg aatcaataaa ttcggctggg atggggagct cgaattctac  300
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 <211> 118  
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<223> Clone ID: LIB3059-052-Q1-K1-G10

<400> 9076

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<210> 9077

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G11

<400> 9077

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gcagaagtag cacttcatcg tctaggcatc ctttgaaat gtgtgatatc tgttgaggaa 180

tctgagggtga atagaaaaat tctaagaagg tgggtggttga aaactgaaca aactggagta 240

ctaaggcaac atgcaggaat ttggaagctc aaaacacatg tgattgaaga cttggtgaaa 300

gagtttggtg gttatgatct gattatcggt gggaattata cttcttgcaa aggtggtact 360

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<210> 9078

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G3

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aacttaattt tcacatctgt atgattaaaa gagattcatc aattggtact gaagtgttgt 180

ttttttgtct tgttgccat ctggagttaa tttactaaa atcatcagtt gtgtccttga 240

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<210> 9079

<211> 398  
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actctgaaga tacattatcc accgggactc gtacacctga agtgatcgag tcgaaacacg  180
acaaccacaa ccctgaagct aaagtttcag caggaaactc ggataggcga gtgaatgctg  240
tgaaccacct agcaaaggag tttgaagaca gacgacaggt gttcgaagac gatgcgggct  300
tnctagttgc agtcaggctc ggtcagaatg gttcaaatat gaaccagat gaggaactcc  360
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-G5  
  
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tgcttcgccg cctccttctc cgacaacttc aacaccccga caccactgc ctccgttaag  240
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ctgaacatctt cggccgacct ttcgtctctt ttcacgtgga acacaaaaca ggtgtttgtt  360
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ggcattat                                         428
  
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<210> 9081  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-052-Q1-K1-F11

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acatcccgcg gcaccctgca gttaccctcg ctagctatcc ccaagttcag ccatcaattg 180  
tatctcatcc ctcttcttgg gaaagaattg gttagcgacac attagctacc gacatgctat 240  
tctttgcgtt ctattaccag cagaacacat atcaacaata catggctgct agagaattga 300  
agaagcaatc gtggagattt caccggagggt acaataacctg gttccagcgg catgtggagc 360  
cacaggttac gactgatgag tatgagcggg gatcatatgt atactttgat ttccatgt 418

<210> 9082  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D6

<400> 9082

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gaaaccaagg agaggccact ggtgcttcgt aataagccgc ctaggtggca cgaacagctg 180  
cagtgttggt gcctcaactt ccgtggccgt gtgacaattg cctcggtgaa gaacttccag 240  
ctgatcgccg cggctacccc gccaccggca ggtgcgccaa cccctctca gcctgccccg 300  
tcagatcccc acaaggatgat tctccaattt ggcaaagtgg caagggatat gttcacgatg 360  
gactatcgct accctctctc ggctttccaa gcctttgccca tttgtctgag tagctttgat 420  
acaaagttaa cctgtg 436

<210> 9083  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D7

<400> 9083

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acaggtctgt cccgctgaag ttggcagtc agcaggcatt ggatgttgca cgtggcatgg 180  
cctatgtcca tggccttggg ttcattcata gagatcttaa gtcggacaac ctctgattt 240  
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aggggatgac acctgaaact ggaacatacc gctggatggc tcctgaaatg atccagcata 360  
ggccatacaa ccagaaagt gatgtctaca gttttgccat tgcctgtgg gagttagtga 420  
ctgggaatgt ccc 433

<210> 9084

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D8

<400> 9084

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tggattggct ggggcagaag cgcgcggaaga tgctgatgca ggtgctgctg gtggcgtctg 180  
ctgtggcggc gttcctgggt ggctacgtgc gctcggactt ccagctcatg ctgctcgtct 240  
acgccggcgg cgtcgtgctc acagcgtcg tcaccgtccc caactggccc ttcttcaacc 300  
gtaacccgct taagtggctc gacgtgccg aggccgagcg ccaccgcgc cccaggtca 360  
gcgccggtgc ggcagcaggg ggaaagaaga agtcgggaa gaacaagtaa tcgatac 416

<210> 9085

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D9

<400> 9085

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cggcggcgaa gaagccgaag ttggaggagg ccaaggaggc ggagaagggg agggtagagg 120  
 agacggcgga ggggaagaca caggaggcaa atgaggagaa ggcagtggag gcggaggaca 180  
 agcctgtgac agaggaggca aatgagaaga aggcagttga agcggaggga aagcctgtga 240  
 cacaggaggc aaatgaggag aaggcagcgg aggcggaggg caagcctgtg aagctggggc 300  
 ctaaagaatt cgctcggcc atcgatatgt tcaactactt ctacgctctg ctccactcct 360  
 ggacgccgca gcttgagttc aataagtatg aacaaatggt gcttgaggat ttgcttaag 419

<210> 9086

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-052-Q1-K1-E11

<400> 9086

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 tgctcacttg ctctagtgc cattattcca cagttcctcc caccagttac ttcaatgggc 180  
 ttcgaacacc tagctgtgca agccaacatg caacaacaag cgcttgcggc gagcgtctta 240  
 caacaaccaa ttgcccaatt gcaacaacaa tccttgccac atctaacaat acaagccatc 300  
 acaacgcaac agcaacaaca gttcctacca gcaactgagc acctagccat ggtgaaccct 360  
 gccgnctact tgcaagagca gctgcttgca 390

<210> 9087

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E12

<400> 9087

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 gaacatttgg ctaccttgca ccagagtata tgcaatttgg cagagccacc gagaagactg 180  
 atgtctacag ttttgggggtt ttggtactcg aaatactcag tggaaagcgg cctactgatg 240



catccttcat tgagaaggga ctaaacattg ttggatggtt aaattttctt gctagtgaga 300  
accgggagag ggaaattgtc gacctgaact gtgaaggagt gcagactgag accttagatg 360  
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acaaggtg 428

<210> 9088  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 9088

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ccatcaagtg ttggtcaaac aaatggccac ctcatgtctg aaagcgctgc acatcaatac 180  
agtattgtga ttttgatggg tcatgtgttt tcctctcaag ttagtggtta cgttttcgct 240  
agaggaagaa aaggggcgtc cttctctttn tgctccttt tctgctgtgg tgggcttctc 300  
acgagcacca gactcatttg ttgtacctga tccctccttt tttgggagaa aggttcaacg 360  
ttttggtgca ggataaaatg ggcttgctat cctccagtgc tgtttatatc tagcgtatgt 420  
tagtgaagaa at 432

<210> 9089  
<211> 401  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gcagcttccc tccctctcct ctccggcccc gcttacctaa cccggcccct cctacgcccc 120  
cccttccgcc gtcgcacgat gagcacctct ccggcggggc tcgtgcaacg cgcttgccac 180  
cgcgtacctg ccgtcgctgc tggccccgga ccacgcggtg gtggaggagg acgacgagga 240

ggcgcgccgac gacgaggacg aggcacgaggg ccagcacggg cgcgggcgggc tcaggggcag 300  
gaggccgtcc acgttcccggt ccccgcggt gatcgcgac gccaccgtcg gccagatggc 360  
gagggcccggt tcgtttcggt ccccgaggtc cttctccatg a 401

<210> 9090

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E6

<400> 9090

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ctgcaggggt gtcactgctt cttctttcag cgaagtactc tcgtgggacc ttcattctcc 180  
ccggcgcgca gcccgcgcca caccgcagct tctcggagga ggtatctgtg ctgaacgctt 240  
tctttggtaa cctcaagctc ggtggcaatg cctacctgat cgggtgaaccg ttcaagccca 300  
acaagaagtg gcatgtctac tacgccacag aggagcctga gcgtcctatg gtgacgcttg 360  
agatgtgcat gacagagctt gacgttaaga aagctgctgt gttcttcaag aactccactg 420  
gtggc 425

<210> 9091

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E7

<400> 9091

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gttaatatct ttgaaaatat ggactagact ggttatgttg gatcagatgg cacctttggg 180  
tgatgaaagc tggagggtcaa agtttgagag agttagagac gatgggttct cccgtttaaa 240  
gggtctgtgg gtcctccatg aaattataat gccgatcgtg accaagctcc ttactgctct 300  
ctgtgtccca tacgtccttg caaggggcat cttcccggtg ctgggttacc cactcatcgt 360

gaactcagcg gtgtaccggt ttgcctggct tggaagcctg atcttcagcg cactcttctt 420  
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<210> 9092  
<211> 414  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-E9  
  
<400> 9092

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ctacccacc cctcgtatc cttccagct ctggctactt cctacgccac caccgcccgc 180  
tccggcctcg gtcctcgag caagctgcc tggctgccgc cgcgctgagg gagcaactca 240  
acgtctcct ctctccatg ttgcctcgg gtctgggtga cgagcagttc cagcagctgc 300  
agatgctgca ggaagacggg ggcacgccgg gcttcgtcgc cgaggtcgtc accctcttct 360  
gcgacgacgc cgacaggatc atctccgagc tcgccgtct gcttgaccag ccca 414

<210> 9093  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-F10  
  
<400> 9093

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tgcagagcca gacctcaagg cgtcggagg ggcagtgaag ggcgtgttcg aggagtccaa 180  
gctggcggag tacgtgtaca agcgaccgg caagcacgcg gccgtcgtca agtccgagcc 240  
ggtcccggcg ccaccgccgg agagcggcgc cggcgacaac acgggggcca aggaggagga 300  
gaaggggcag gaggaggaga aggagaagga aggaggaggc gatggcggtg gcgaggagaa 360  
gaagaaggaa gggggcaagg aggaagagaa gaaggactgc gagaa 405

<210> 9094  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-D5  
  
 <400> 9094  
  
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 gaaaccaagg agaggccact ggtgcttcgt aataagccgc ctaggtggca cgaacagctg 180  
 cagtgttggt gcctcaactt ccgtggccgt gtgacaattg cctcggtgaa gaacttccag 240  
 ctgatcgccg cggctacccc gccaccggca ggtgcgcca cccctctca gctgccccg 300  
 tcagatcccc acaaggtgat tctccagttt ggcaaagtgg caagggatat gttcacgatg 360  
 gactatcgct accctctctc ggctttccag gcctttgcca tttgtctg 408

<210> 9095  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-C1  
  
 <400> 9095  
  
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 cggagggagg atacgtcagg gcatttccat atttttgttg gtgatttaag ttctgaagtg 120  
 aatgatgcaa ctctttatgc ctgtttctca gcatatcctt cttgttctga tgctcgagtc 180  
 atgtgggaca acaaaactgg acgctccagg ggttatgggt ttgtctcctt ccgtaatcaa 240  
 caggaagctg aaactgctat aactgaaatg actggaaaat ggcttggaag cagacaaata 300  
 aggtgcaact gggcaacaaa gaacaattcg gaagagaaac cagaaactga caatcataac 360  
 gcagtcatac taacaaatgg tagcttcaac aat 393

<210> 9096  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-C10

<400> 9096

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ggttcacctg ccacctccgg tgcacatccc accgcgggtc cacctgccgc cgccgggtcca 180  
cctgccaccg ccggtccatg tgccgccgcc gggtcatctg ccgccgccac catgccacta 240  
ccctactcaa ccgccccggc ctcagcctca tccccagcca caccatgcc cgtgccaaaca 300  
gccgcatcca agcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgatcct 360  
gggccagtgc gtcgagtttc tgaggcatca gtgcagcccc a 401

<210> 9097

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C11

<400> 9097

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taggagtata atcgatcatat cgatcggttg cgtgtggaat gccaatcatg tgtgtaatat 180  
gttgccaaat aacaaacctc tgttcctccc tgctgctggt gtccgtgcga tcatgattca 240  
gaactggcgt gggcgccaat aactcagaag agagacttgc tgtatatgca tgctagtatg 300  
cattgtccct ctcttgtaaa tgcttgtaat cgaactttat tatgaaaacc aaaacgagaa 360  
tccaacc 367

<210> 9098

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C12

<400> 9098

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tactcaagtg tatgggttct atgacgaatg ctttaaggaag tatggaaacg caaatgtctg 180  
 gaaaaccttt acagatctat ttgattactt ccccttgact gcattggctg agtcagaaat 240  
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 agatgatcgg tgtggttggg 380

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 <211> 136  
 <212> DNA  
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 <223> Clone ID: LIB3059-052-Q1-K1-C3

<400> 9099  
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 caaatctccg actaac 136

<210> 9100  
 <211> 347  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-C4

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 cgatcttctt ctactatct atgttcaccc tcttacaact tctacaattt cttccattca 180  
 accaacttgc ttttacaac ccatcatctt tctaccaaca acccatcatt gctgggtgcc 240  
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 ctctctatat attatccatt ccatttctaa tcaacttttc tctcaca 347

<210> 9101  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C6

<400> 9101

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tataaaacaa caaaaattca attcactacc catcatttaa caacaacata acaataaaaa 180  
accctttcat aacccaacta aatcacctta caccacatcc ccctttctcc aactaaccaa 240  
aaaacaaaaa aaccacacacc aatcacctt cccaacaatt acccaaccta aataacaaat 300  
aaaacacacc ctaaaactac acataaaacc caac 334

<210> 9102

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D1

<400> 9102

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tgctgcctac cccagcaat ttcttcatt caaccaactg gcagcattga actctgctgc 180  
ttatttacia cagcaacaac taccaccatt cagccagcta gctgatgtga gccctattgc 240  
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cctcttacia ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccaacagc 360  
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<210> 9103

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D10

<400> 9103

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ctttcagctg ttgcctgctg gtagccaaga cacactgaat ccgaaggaag gcgttgaagg 180  
 gtagctgtta gtgattttgt gatataaaga gtactggggc agttagcatc ggcattttta 240  
 gcggatttaa gttcttgta tgtatatctg tcttctgtct tcatcagtag tgctgcttag 300  
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<210> 9104

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D12

<400> 9104

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 ctccgtgctc gcggctgcca gcgccagcgc cgggacctcc tgcggtgccgg ggtggggccat 180  
 cccgcacaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
 gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
 ggcgtagctg cggtgcacgg cgctgagcat cctcatggac ggcgcgatcc cgcggggccc 360  
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<210> 9105

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D4

<400> 9105

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 cgactcctaa ccgaaactgg ttcagctcta cgattgttcg acataacgac tggaactaat 180  
 gttactcgat caaggcttct cccagtgaca gctacatgtg atctgtagct cgtgcagcct 240  
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taacgcttct attgagctag gacctga

327

<210> 9106

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B9

<400> 9106

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acggaaagga attgtgcaag agcatcaacc ccgacgaggc tgtggcgtac ggcgccgctg 180

tccaggctgc catcctcagc ggcgagggca acgaaaaggt acaagatctg ctctgctcg 240

acgtcacgcc actgtctctc ggcctggaga ctgcaggtgg cgtcatgacg gtgctgatcc 300

cgaggaacac caccatcccg accaagaagg agcaggtctt ctccacgtac tccgacaacc 360

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<210> 9107

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A5

<400> 9107

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atcctggcat gcacagtgtt ggtgctgtga tgccaccttc atatgagatg ggagggatgc 180

caatgagaga agctgcccc caacctgttc caattggggc gctagccact gcacttgcta 240

acgccccacc agatcagcag agacttatgc ttggtgagaa cctgtatcct cttgttgaac 300

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aggttcttca cctgctggag tcgccagatg ctctgaaagc 400

<210> 9108

<211> 421

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A6  
 <400> 9108

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acaaaaaggt ctaatgCGGT ctggaaaaat cttgagctcg caaccatgaa attgtcccaa   180
gaactggcag agcaattgCG cctgggttatg gaaccaactc ttgctagtaa gtttcaaggg   240
gattatagaa ctggaaagag aataaacatg aagaaggTTA ttccatatat tgcgagtcAT   300
ttccgcaggg acaagatatg gttgcgCCGA actaagccta ataaacggaa ttaccaagtG   360
gttattgctg ttgatgactc tagaagtatg tctgagggca aatgtggaaa atttgctatc   420
g                                                                           421
  
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<210> 9109  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A8  
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tcgggcttcc acaccgtgat gctaccgacg acaaagtcac agtggaggct gcggaggcca   180
cactcaagta caatgtggct atcaagtgtg ccaccattac accagatgaa gcaagggtaa   240
atgagtttgg cttgaaggct atgtggaaga gcccaaattg cacaattagg aatattctga   300
atggcactgt gttcagagaa ccaatcatct gcaaaaacat cccacggctt gttccagggt   360
ggacaaaacc catttgcacg gggaggcatg cattcggtga tcagtaccgg gcaactgatg   420
cagttatc                                                                           428
  
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<210> 9110  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A9

<400> 9110

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cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180  
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcacattac 240  
ctttatcacc cttgttctct caacaatcat cagccctatt acatcagtta ctttgggtgc 300  
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta acaaaccttg 360  
ctgcctactc tcagcaacag cagtttct 388

<210> 9111

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B1

<400> 9111

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agaagaataa ccttcagcaa cctgtttgtc cgtcgggctg gccaggcag cacggagctg 120  
accgtggagg gaaggccatc cgaccagctg ggcaggagaa acctcactga cagccccgta 180  
tttgacggcc gtggccctga cgccagcctc gtggctcgcg tacagggagt cgctaccag 240  
atgggcgacg tgcgccagtt gtacaccgtc gtgttccagg agaggccgct caagggtcc 300  
acgctcgta cgaaggcgc gatgacagaa gggtcagacg agtgggcat ctacggtgga 360  
actggagtgt tcgcgatggc gagaggcgtc ataaggagaa cgtttcttgc cgacacgagc 420  
cggc 424

<210> 9112

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B10

<400> 9112

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 agacagagga gggctgggaa tttcaattag ctgaaaaact taaagggtta agttataaca 180  
 tgctagaacc aggtgaagtg aggatagatg cagatataaa ggatgggggt atgatgctga 240  
 taactgcatt gagtccttat gcaaaactggc ttcaaggcta tgctgatgtt ctctgcagg 300  
 ttaaaggcac tgttgatcag cctgttgttg atggatcagc aacgtttaac cgggctattg 360  
 tgaactctcc ttttcttcgg acaccattga caaatTTTgc gggTacaatt caagtcatat 420  
 tcaacagac 429

<210> 9113  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-B12  
 <400> 9113

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 ctgaagagtt cggcctgcag ggcccctgat ctgcgcgctg gtgcaaagat gttgggacat 180  
 cttcttatat atgctgtttc gtttatgtga tatggacaag tgtgtgtagc tgcttgcttg 240  
 tgctagtgtg atgtagtgtg gtggtggcca gtggcacaac ctaataagcg catgaactaa 300  
 ttgcttgctg gtgtagtta gtaccgatcg gtaattttat attgagagta aataaatgga 360  
 cctgtagtgg tggagtaa atccctgct 390

<210> 9114  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-B2  
 <400> 9114

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gtgtggcaaa agtgaagaac ctctacaaag aacttgacct agaggcggta tttcaggagt 180  
acgagaatga gagctacaag aagctgattg cagacattga agcccagcca agcattgcgg 240  
ttcagaaagt gctgaaatcc ttcttgacac agatctacaa gaggcagaag taggggtgctc 300  
ttggataaac gagctcagga gtcgttactc cttcgcattg ttgacataac cggacttctc 360  
cacctgggtg ctctagtatg atgtggagcg tctagttaaa aaaaatcgat gtagtatgaa 420  
gcaccttgct gctctgaata ttaa 444

<210> 9115

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B3

<400> 9115

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cgtcatcgtc gactccccct gcgtccgttc ctttggatct gaataagatg gtggtgatct 120  
gagtgggtgt cttagtttat catgtatcgc tcgcagttta atttagcggg ttaggtgtgg 180  
atctgtgaac cccatggcgc ctctgcttga ttcgtgtttc acctgttatg ttctgagatt 240  
catgataatg ctatgagaac tgaaattccc gtttcattgct 280

<210> 9116

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B4

<400> 9116

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cctgtgattt ctgtcattct gagctatgaa catgtttgct ttaatcatgt tatcggattc 180  
agatgcatta attaatacgt ttggt 205

<210> 9117

<211> 433

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-B6  
 <400> 9117

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 agccaaaata ttttgccctc ttatgtcctt tggctcttct gcaagtgtcg ctacgacgac 120  
 cattttcccg caatgtctac aagctcctat agcttctctt cttcccccat acctctcacc 180  
 agcgttgtct tcagtatgtg aaaacccaat tcttcaacct tacaggatcc aacaggcaat 240  
 cacagcaggc atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca 300  
 tcaattacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact 360  
 cgtgctagca aaccttgctg cctacgctca gcaacagcag ttacctttgg tgcaattggt 420  
 ggcacaaaac atc 433

<210> 9118  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B7  
 <400> 9118

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 accctaagaa ctacggccct ggctcccgcg tctgccgggt ctgcgcgaac cctcacggtc 180  
 tgatcaggaa gtacgggctc atgtgctgca ggcagtgtt tcgcagcaac gccaggaca 240  
 ttggtttcat caagtaccgt tgaagaggcc actgtgctgc tgcggagaac ttctacatc 300  
 aaagaaatgg gtccttcatt agaaggccta atttatgcgc tttagctttt tggttcagaac 360  
 ttgagactca tgtgttaaac tcgacttggt aaagttttga tggctacttt gtgcttggtg 420  
 gaccagctat aatc 434

<210> 9119  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B8

<400> 9119

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gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 180  
ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 240  
gtttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 300  
gatgatgccg agcatgatgt c 321

<210> 9120

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A3

<400> 9120

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agtcgcaatg aatgtaacct attttgcacc cagtgtgaga ccaaaccagc tgctttctgt 180  
aactattgtc gttcaagtga tcattccacc caccgtgtaa tccagataag gcgttcatcg 240  
taccatgacg ttgtgagggg gtccgagatt gaggatatcc ttgatgtcag cgatgtgcaa 300  
acttatgtaa tcaatagtgc aaggattgta ttctgaatg agcggccaca actgcgtgct 360  
tctagtgtcc ccatttgtaa ggcaccaca tcatcaacac ataactgtga gacatgtaac 420  
cgtgtgctac 430

<210> 9121

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H1

<400> 9121

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tctgatggcg ctgcctggca ggcacgctc cagtacaagc cgcggctggc gctgccagac 120  
 acaaccgttt gatctaccgc ctcaaggcta tatgccgtct ccgctctatc tgccgccgga 180  
 gcaacatcca gaacgacggc aatacccaac tcaagcaccg cagctaacc cgtgccatca 240  
 gctccgatcc tgatgcgtca gcagcgctcg ccgccgttc ctgcgccagt gcgtcgaagg 300  
 actgaggcac cactgcaatc cggcggcgac actgtaccgc tcgacacagt gccaggcgct 360  
 gcatcagcag tgctgtcacc agatcacgca tgt 393

<210> 9122

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H10

<400> 9122

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 agcaaacatg ctgagacatt tagttgaacg aacctgagtt gttccgagat ttctgtcggg 120  
 attattcaat tggaatTTTT gaagcttggg attctattgg atct 164

<210> 9123

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-H11

<400> 9123

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 aatccttggc acatctaacc atacaaacca tcgcaacaca acagcaacaa cagttcctac 180  
 cagcactgag ccaactagat gtggtgaacc ctgtcgcta cttgcaacaa cagggtgcttg 240  
 catncaaccc acttgctctg gcaaacgtag ctgcatacca acaacaacaa caattgcaac 300  
 agtttctgcc agcgctcagt caactagcca tgggtgaacc tgccgnctac ctacaacagc 360  
 aacaactgct ttcatttagc cctctcgttg tgggtaatgc acctacatac ctgcaacaac 420



aattgctgca acagattgta

440

<210> 9124

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H2

<400> 9124

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tcggggggcg ttgcaacgct ctgtacaaga ccacctaattg cgacgcatat tccactagac 120  
aggactccag gtatgcacat tcttaagacg aaccataca tgcagtactg cataatggaa 180  
catagctca gtagcttgat tactcgacag tccatcatgc taaatcccct ggtggacata 240  
cctcatcaca cgatgccaaa gatgacgcct cagatgatga cgccta 286

<210> 9125

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H3

<400> 9125

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ttgccaccag tcatgccatt gggtagcatg aaccatgca tgcagtactg catgatgcaa 180  
caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240  
ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacad gatgtcacca 300  
ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaattgatg 360  
atgccacaat gtcactgca cgccgtctcg cagattatgc tgcaacagca gttaccattc 420  
atgttcaacc caatggcca 439

<210> 9126

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H5

<400> 9126

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cgcgaaatctc gtcggtctac caaatccgtc gcgaatctcg tccacaaaac ttccagccat 180  
ggctgccgtg accaatccat ggcagccgcg ccctgggtccc tcgaccgcg cggcttccat 240  
ccatgggtgct tcttcttggt gtggtgttcg gatcgagtc cactgaccga accgaaccac 300  
tgttcgacgg agcagatgac acgatggcca tcttcctggc gctgcggtcg ccgaagctgg 360  
aggtgtcggg cctcaccact accttcggca acgtccacac cgccctcgcc acgcgcaacg 420  
cgc 423

<210> 9127

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H6

<400> 9127

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acatctacga gttcactggg ttgattgccg atgatcagtt catttcagct gaaaatctca 180  
cagacaacca gaaggtctat gctgatgcat tggtaaagaa agcatatgag gactggatgc 240  
aagttgtaga atatgatggc aaggcactct tgagcttcaa gcagaaaaag aaaactgtca 300  
cgacaagaag tgacgttgca tctgcctcaa caagcaatcc tgcttcatat ggctcgcca 360  
attcacagaa acagttgtct cttccagcaa aagctggaca aacttcctca gcgggtacta 420  
tgaatgaaga tggaact 437

<210> 9128

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H7

<400> 9128

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acaacaacag cagctaccac cattcagcca gctagctgat gtgagccctg ctgccttctt 180  
gacacagcaa cagttgttgt cgttctactc gcacgctgcg cctaacgctg gcaccctctt 240  
acaactgcaa caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta 300  
ccaacaaccc atcattgggtg gtgccctctt ttagattgct tatgagttat agttcaataa 360  
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<210> 9129

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H8

<400> 9129

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caaatactac taccatttag ccagctagct gcagcaaacc gtgcttactt cttgacacag 180  
caacagttag tgcctttcta ccagcagttt gcggctaacc ccgcaaccct gttacaacta 240  
caacaattgt tgccctttgt ccaacttgct ttgacagacc cagcggcctc ctaccaacaa 300  
cacatcattg gtgggtgccct cttttagatt gcttattagt tgtaattcaa taataaagtt 360  
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<210> 9130

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H9

<400> 9130

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ctgatgtcaa gggcaccatc ttcttttcac aggaggggga tgggccgacc accgtgactg 180  
gaagtatctc tggcctcaag ccagggtccc atgggttcca tgtgcacgcg cttggcgaca 240  
ccaccaacgg ctgcatgtcg actgggccac acttcaatcc tgttggcaag gagcatggcg 300  
caccggaaga tgaggaccgc catgccggtg atcttgggaa tgtgacagcg ggagaagatg 360  
gtgttggtta tgtcaatatt actgacagcc agatacctct tgctggaccc cactcgatca 420  
ttggccgagc tgttgttgt 439

<210> 9131

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A1

<400> 9131

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cacctgcacc aatggctgtt ctttctgctg ctgggtgctcc cccggcctca gctatcgggt 180  
ttgagggtta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 240  
cccatggcag cggtttgctg gccctctcca ggtcccagat tgactctgtt ctggatcttg 300  
cacggtgcac gatcgtgtcc gagctctcca acaaggattt tgactcctat gttctctccg 360  
agtcaagctt gttcatctat cctctgaaga ttgtcatcaa gacctgtggc actaccaagc 420  
t 421

<210> 9132

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A10

<400> 9132

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agaataataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaataaa aaaaagtgcc tcccccttta aatattccaa gtttactatc 180

ccttatttcc aaattcaaac cttttttata tcgtccctta aattaaatac catacccgtc 240  
 attttacaat tatcaccttg gaaaaacctt gacttatcca acctaaaaca ttttttacia 300  
 aatccccctt taccacttg ccatattacc aaaaaacccc taccaaaact ctttctaaaa 360  
 a 361

<210> 9133  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A11  
 <400> 9133

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 aggacgtaag gatagtgtgc gtctgccatg gcagcttctt ccccccgcg gagttcgta 180  
 agcacgctgg cggcggtgac gtatcgaacc cgcttcgaca tatcgtcgtc aacctgcgc 240  
 cgttctcgtg aagagggagg gttacgctcc tgttgctgct ggtatcgatc gtgctgtaac 300  
 atgtttagt aggtccttg tttccgggag ttcaatggaa ggtctctctc tatatttgac 360  
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 acaaattga 429

<210> 9134  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-052-Q1-K1-A12  
 <400> 9134

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 gaggtagtgg atatcaaggg tgataatcca gatgctgttg ttctgggtct aatggctgct 180  
 ggtgaagcag cctgtgcac tgttcatggt gcgaataggc taggcgcaaa ttcgcttctt 240  
 gacatagttg tttttggcag agcttgtgca aacagggtag cagatatttc taaaccaggt 300

gagaagcaga aacctctgga aaaagatgct ggagaaaaga ccatagcctg gttggacaag 360  
ctgaggaatg cgaatgggtc att 383

<210> 9135  
<211> 271  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-052-Q1-K1-A2  
  
<400> 9135

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gggctcaatt gtacgcacat tcagtagagc cgtattggag ctctatggaa cattataaat 120  
ggcactgtgt ccagagagcc taatgtacgc agcttcctta cacgaccatg ccaaggatgg 180  
actaagccca tgtgcatcgt aaggcatacc tactgtgatac aataccacac taccgatgca 240  
gttatgaccg tgccctgtcaa gctcgatact a 271

<210> 9136  
<211> 325  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-049-Q1-K1-G9  
  
<400> 9136

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gctttactcc ctagtggaaac agttatatga agtgaacgtg cgacatgcag ctgtgtgtct 120  
cgacattcga caatgatcag cacctgggta catgcgtgat ctgcagatca gtctgtttga 180  
gatcatcgga gcaataaaaag tgtcatccaa ggcatttttt ctttcttttt gctctttttgt 240  
gtccttcaat gttgtagggt agaagtgtgt agcagcaaata gttagttaca tgttgaatcg 300  
acattggggg cctggatttg gggat 325

<210> 9137  
<211> 420  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-F3

<400> 9137

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tacagcagca acaactacta ccattcagcc agctagctga tgtgagccct gctgccttct 180  
tgacacaaca acagttgttg ccgttctacc tgcacgctat gcctaacgct ggcaccctct 240  
tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca acagtgttct 300  
accaacaacc catcattggt ggtgccctct tttagattgc ttatgagtta tagttcaata 360  
atgaagtttt ttggatgatg tttgtggcgt cccagaaata agaaagtaca tttctagatt 420

<210> 9138

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F4

<400> 9138

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tcagggactt gttcaatgac tcagccgagg cccagaccgg agcaggccct tcagctgaga 120  
agggcttttc tgcaacagag atggctgtgg gaggatcctt catggctctg accatagcgg 180  
tcatcctagt tgttctgttc aagagggcat gatagctcaa gagtcatggg taccttctgg 240  
gacccatcgt gctttaaatc tgtcgaaaat tactcgtctg tcgtatggtc aataattccg 300  
aatgcaatgt atagcttgct cgtttctttg gaaacagtac aataaaggat ttatctaaag 360  
tatgctc 367

<210> 9139

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F5

<400> 9139

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gatgctccca agcatcggca ttgcatgag gctcatggat atgtccggaa ggaggtttct 180  
 cctcctcgcg acgatcccag tctaatagt cgcgtactc gtcttggtgg tgtccaacat 240  
 cgtggacgtg ggggacgtgg cgcacgccc gctctccacg gccagcgtca tagtctactt 300  
 ctgcttcttc gtcattgggtg tcggggccgt ccccaacatc ctctgcgcag agatcttccg 360  
 caccacggtc cgcggtgtct gcatcgccat ctgcgccctg gccttctggc tcggtg 416

<210> 9140

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F7

<400> 9140

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 atgctacttg gtctttctgc aagtgtgct accgcgacca ttttcccgca atgctcacat 120  
 gtcctatag cttaccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180  
 aacccaattc ttcaacccta taggatccaa caggcaatct cagctggcat cttaccttta 240  
 tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
 ttggcacata acatcagggc acaacaacta caacaacttg tgctagcaaa ctttgcctgc 360  
 tactctcagc aacagcagtt tcttccattc aaccaactat ctgcattgaa ctctgctgct 420  
 tatttgcaac aacaac 436

<210> 9141

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F8

<400> 9141

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 tggcagtgct agtgtgagca atgacctgaa tgaacaattg aatgaaaag aaaaaagtat 120  
 tgttccaaat taaacgtttt aaccttttaa taggtttata caac 164



<210> 9142  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-G1  
  
 <400> 9142  
  
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 acggagccag tagcaaggcg aagaacgggg cggtctgggcg caaggctggc ggccccagga 120  
 agaagtccgt gtctcggacc gtcaaggacg ggatgcaatt tcccgtaggt cggatcgggc 180  
 gctacctcaa gaagggccgg tacgcgcaac gcgtgggcac cagcgcccac gtgctatctc 240  
 gccgtcgtgc ttgagtacct agccgacgag gtgctggagc tggacgtcaa cgcttcgaag 300  
 gacaacaaga agacgcgcat cgtaccgtgc cacgtgctcc tggcgatcgc gaactacgtt 360  
 gaactcggcg cgctactgtc tggcgtcacc atctg 395

<210> 9143  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-G10  
  
 <400> 9143  
  
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 taatataata ctcaattgtg actgtgttca agaagctgct atgtagacag accgatactt 120  
 catcaaaagt gcaatcagtc aactaatca aggatgcttt actcactact ggaacagtta 180  
 tatgaagtga actttcgaca tgcagctgtg tatctctaca ttctacaatg atcagcacct 240  
 gattacatgc atcatctgca catcagtctg atcgagatca tcgcatcaat aaaagtctca 300  
 tacaagg 307

<210> 9144  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-G11

<400> 9144

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gagtactcgg gctcaacttc tggatcccg ttcaagtccc gcgacgaatc cctgttgcc 180  
agtgactgat cgaccgatgg atgctacaat atgaatgata tgcgcatgac cagcatggtc 240  
atgcngtcat cagtcctatg cctntgtcag actgagctca ctaaacttac cccctttgg 300  
gggtcgatgt tgtattgcta agttccgttt gtgctaagta ttagcgcata ctgctagact 360  
gccactgtcg tctgtactat gcatgctntt gatctcgagt gatcgtgttg 410

<210> 9145

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G2

<400> 9145

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gttgtgagcc ctgctacctt cttgacacaa ccacagttgt tgccgttcta ccagcacgct 120  
gcgccctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa ccaacttget 180  
ttgacaaacc taacagtgtt ctaccaacaa cccatcattg gtgggtgcct cttttagatt 240  
tcttatgagt tatagctcaa taataaagtt ttttgtctga tgtttgtggc ttcccagaaa 300  
taagaaagta catttct 317

<210> 9146

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G4

<400> 9146

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tggggctcgc tgcgagcgcc acctacacgc atacaagcgg cggctgcggc tgccagccac 120  
cgctcgtcgtt tcattctacc cgtcgggtgc atctgccacc tgcggttcac ctgccaccta 180

cggtgcatct tccaccgccg gtccacctgc cgccgccgta ccacctgcca acgacgggtcc 240  
atgtgccgcc gacgggtcat gtgtcgtcgc caccatgccg ataccctact caacctgcac 300  
ggactcaggc taacattagt catacgcattg cccgggctaa ctgtctcatg caagcccggtg 360  
ccag 364

<210> 9147  
<211> 257  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-G6  
<400> 9147

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catgcacgtt gggagatcag atcttcgctt gcataggatg cagactagcc tacctactca 120  
tacgtataac tagatattgt atattatata actaagaaca attccctatc cgctttaata 180  
catggctctg actagcaata ccataactgc acccatctta atgctctgcc aatacatcac 240  
acatatgaca tctgtcc 257

<210> 9148  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-G7  
<400> 9148

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cttcctgggtg ctgctgctgg gtgcccagga tcacgggctt ggagagcaag cgaccggcgg 120  
cggcccggcc gttggagcag cagccgccgc cgctgctcct cccgcgcggg aggctgtaat 180  
catcagccgg caccagcatt cgcagccgtc ggccgcggcg atggcggaga gcaagcggct 240  
cccatccct ccgtccgggc cgtccactaa gtggaactac gaggcgaatc acgagaagcc 300  
gtcgtcgtcg gagtcgggct cgggccgccg ccgcctcggg tgggtggtgg ccccgtagacg 360  
cggccgggtg cgggtgggtt ttgagagctg cagagatctc aaggctcagc tagcgtcgtg 420  
tgtgtc 426

<210> 9149  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-G8  
  
 <400> 9149

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ctcagcaaca acaacttctt ccatttaacc aattggccgc actgaacccc gctgcttatt    180
tgcagcagca aatactacta ccatttagcc agctagctgc agcaaaccgt gcttcttctt    240
tgacacagca acagttgctg cctttctacc agcagtttgc ggctaacccc gcaaccctct    300
tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagacca gcggcctctt    360
accaacaaca catcattggg ggtgccctct tttagattgc ttattagttg taattcaata    420
ataaagtttt ttggat                                                    436
  
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<210> 9150  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-F2  
  
 <400> 9150

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aagacgttca agaaaccaat gcgttcttat gagaaggagc gtctagatgc tgaactgaag    180
ctgggtccgtg agtatgggct gatgtgcaag cgtgagcttt ggagggtcca gtatgcactg    240
agcaggatcc gtaatgctac aaggcacttg ctcacccttg acgagaagaa ctatcgctcg    300
atctctgagg gtgaggcgct tcttcgccgc atgaaccgct atgatctgct agctgagggt    360
cacaacacgc ttgattatgt acttgccctc accg                                394
  
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<210> 9151  
 <211> 420  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D8

<400> 9151

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tggcaagtcg cggttttcaa tcaatgggaa gcctatctac cactttgttg ggacttacac 180

cttcagcgag tacaccgtca tgcattgtgg ttgtgttgca aagatcaacc ctcaggctcc 240

ccttgataaa gattgcgtcc atagctgagg tatatctacc ggtcttggtg catcaattaa 300

tgttgcaaaa cctgcgaagg gttcgacagt agctgcattc ggtgtacgag ccgttggtct 360

tgccgctgca gaaagtgcac ggattgctgg agcgtcaagg atcattgggtg tcgacctgaa 420

<210> 9152

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-D9

<400> 9152

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gccaagcaat ctgggctggg attttcaatg acttgggtaa tgggaacaac cttgaccttt 120

tctttataac caaagtgaag acagaatact ggaaaaacca accagtgccg aatccaagac 180

ttatgctagg tcaaagggat acatgttcac gaagggtcag actgaggtac tgacttaagg 240

tcacacttta aacacaaagt gaggtcgacg aggggtggaga tgctatcgag gaggatctt 300

gcatgcctgc attcatacaa gcatatnctg aatctgtgta actttgctta gtgaatcagc 360

tagaacatga aaaatgaaaa tttggaga 388

<210> 9153

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E10

<400> 9153

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tccaaagggc tgggtacaatt gtgccaagaa aggacagatt cagacgcagt tctactcaga 120  
tggtgaatga tccatacact ctggtgatag cactcaatag ctcagggtgct ggagaaggcg 180  
aactttatgt ggatgacggg aaaagttatg agtaccagca aggggcattc atccatcgcc 240  
gatttgtctt tgcagacaat aagctaactt cattcaatat tgggcctgac gatttgggca 300  
agaaatttag aagtgattgc gtgattgaaa gaattataat cctcggttta cgatccggag 360  
tgaagaaggc tattattgag cctggaaatc aagaactaga aattgaatca gggccaatta 420  
gtttaaggag t 431

<210> 9154  
<211> 169  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-E11  
<400> 9154

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tgtttgttgt ttggtaatac cgttctgttt gctataatta tcgatcagcg ggatgtgaag 120  
tactgtttac attgctcgcg ttctaataaa gtactgtttg gacttgctt 169

<210> 9155  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-E12  
<400> 9155

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acctggctta aatctatcac attacaagcc tattacatgc ttcaattact agagtagcaa 120  
gcggaagcgg catggcgaaa gcgtcatcgt gggcggcggc gatgagcgtc ggcaccgtaa 180  
aggcgtcaa ggaccagtcc ggcctgtgcc gctggaacta cgcgttccgg caggcggcgc 240  
atcaacgcgc caggaggcca gcggcaagcg cgagcggctc agtctgcccc ggcagcgcgc 300  
actcgccgac tgcttatgct ccctcggact gcacacgtgc ggagaggagg agagccaggc 360

aacatcagga ggatgagctc cggacgggtca tgtacctcat caactgcagt cccaacaact 420  
agctacgaac tat 433

<210> 9156  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-E2  
  
<400> 9156

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atggggccta tgtaagaact ctttaacatg tgaaatgcaa ctgctaacat caacattgag 120  
ataagtactt gaatctattg tcgatatgaa ctaactaata ttgtatgacc tgaagggacg 180  
aaagaccaac gaaattgtgt acatccaact tgaaagacgc agtaattgca gtgctcatag 240  
ggctgaatat gatatccaat aaaccactaa ctaagtgttt aaacgaacta ctataatcga 300  
ctatcaatac acaaacatct acttta 326

<210> 9157  
<211> 397  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-E4  
  
<400> 9157

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ggaaggcgaa gaagggagcg gcctgtcgca aggccggctg tccgaggaag aagtcggtga 120  
ccaggtccgt gaaggccggg ctccagttcc ccgtcggccg catcgggcgc tacctcaaga 180  
agggccgcta cgcgcagcgc gtcgtctgcg gtgcccccggt ctacctcgcg gtcgtcctgg 240  
agtacctcgc cgctgaggtc ctggagctcg tcggcaacgc tgccaaggac aacaagtaga 300  
cgcgcacgtg cctgcgccac gtgctgctgg cgatccgcaa cgacgaggag ctcgtgaagc 360  
tgctgaccgg cgtgaccatc gtccacggct gcgtgtt 397

<210> 9158  
<211> 402

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-E7  
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 tgatgctgca gcaactgttg gcctcaccgc ttcagccgtg ccagatgccca atgatgatgc 120  
 caggatatgat gccaccgatg acaatgatgc cgatgccgaa tatgatgccca tcatgatgatgg 180  
 tgccgactat gatgtcacca ataacgatag ctagtatgat gccaccgatg atgatgccaa 240  
 acatgggtttc accaatgatg atgccgagta tgatgccttc gacgatgacg ccgagtatga 300  
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<210> 9159  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-E8  
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 ctcaaaagct cctatagctt cccttcttcc cccgtacctc tcaccagcgg tgtcttcgggt 180  
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttgggt 300  
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc 420  
 tgctgcttat ttgca 435

<210> 9160  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-F1



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atagctcctg atgtcctaga tcgaatgaca gcatctaatac tcctactaca tcttctgtca 180  
cgacagcagc gtttgggcgc agtccgagtg cttaccccag ttaaagcctg ctgaggttac 240  
tgctatcata aacgacttat atgaaccttg tactcttgta ccaactggta ttttaattgg 300  
atgtacaaag tacattatga tccaaagtga acctggaatt atcatccgat gacagaaggt 360  
cactgctggc attactatc 379

<210> 9161

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-F10

<400> 9161

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aaaagagggc aggcacgaag aggagaaaga cagtaaactg aaggacgagt tccacaagtt 120  
actgaatggg aaccatgcgg atcctactga tcgtcgacag cggacacaca tgaacgggag 180  
gcacgacgaa gacatcaatc acgcgctctc cgaggccact gccaacggca cgtaagggcc 240  
cgtcggcatc tgctttcaac cgggggcttt gaccttggcg ctgcgaggag aatcctcgcg 300  
ggggtcgaga aaacctgcct ggtgtggtgc cccggccgcc tttttctgaa ttatgaagct 360  
gtccgagatt ccagcgatcc agccattcac atcatgcac ttctgaacc 410

<210> 9162

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-F11

<400> 9162

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caggcactac tactcaattg caatcaatta ccgaaaaaat gagctagagg agaaaatggt 180  
gttgaacttg cacaaaaaga aatggacaga tggactaatt ttgaagaggt ttgacactca 240  
ctcaaaaacc aacgagcaga ctgtccagga aatgctaaac ctagccatca agtacaacaa 300  
ggcagtgcaa gaggaggacg aactgccacc tgagaaactt gcgatagcaa atgtgggtcg 360  
gcaagatgca naaaagcatt tggaagagca tgtgtccaat ttgatgtcat caaacatagt 420  
tcagacccta ngaaccatgc tcg 443

<210> 9163  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-F12  
<400> 9163

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tggcaaacct ttctccctac tctccgcaac aacaatttct tccattcaac caactgtcta 120  
cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 180  
cctactctca acaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 240  
cttatttgca gcagcaaata ctactaccat ttagccagct agctacagca agccgtgctt 300  
ccttcttgac acaacaacag ttgctgccgt tctaccagca gtttgccggt aaccccgcaa 360  
ccctcttaca actacaacaa ttgttgccct ttgtccaact tgctttgaca aaccagcag 420

<210> 9164  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-049-Q1-K1-D7  
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gaaagtgagg aaggtcttaa ggctacattg aatgtcaatg tcttcggaac tattacttta 120  
actcgcttc tagcacotta catgcttgat agagggatgg gccattttgt tgtgatgagt 180

agtgctgctg gaaagggtcc tgctcctggt caggccattt actctgcctc caaacatgct 240  
 cttaatggtt actttgcttc tctgcgatct gagttgcgta caaaaggcat taaggctact 300  
 gttatctgcc ctggaccgat tgaaacacta caatcttctg ctgcagcttc ttcacgcaa 360  
 acacattctg ctgagaaacg tgagaaacgt gtttcggtgg aacggtgtgt tgaactgaca 420  
 attgttgctg ctac 434

<210> 9165

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C12

<400> 9165

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 caggaaaagg ctgcagctca cttgaagggt ggtgccaaaga aggttgtcat ctctgctcct 180  
 agcaaggatg ccccatgtt tgctggttgg gtcaacgaga aggagtacaa gtctgacatt 240  
 aacattgtct ccaatgctag ctgcacaacc aactgccttg ctctcttgc taaggctac 300  
 aatgacaagt tcggtatcgt tgaggggtctg atgaccactg tccatgccat cactgctacc 360  
 cagaagactg ttgatgggcc ctcatctaag gactggaggg gtggaagggc tgctagtttc 420  
 aacatcattc cca 433

<210> 9166

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C2

<400> 9166

ctctatcgtc ccgatccgtc gttcatcaga gtcgtaaccg tacgccctcg ttcccctcgt 60  
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 tcgcccgcg tctcgtctct ggagacggag gcgccccagg ctaccgtcac gagggagcgc 180  
 aggctcaacc ccgacctgca ggagcacctt cccaagccat atctcgcgag ggctatggtg 240

gcggtggacc cggaccatcc gaccgggacc gaggggcgcg acccccgcg catgagcgtg 300  
 cttcagcagc acgtggcttt cttcgaccgc aacggcgacg gcgtcgtcta cccctgggag 360  
 actttcaaag gcatgcgagc aataggggtgt gggttcttta catccctcgt catctcgttc 420  
 ctcatcaacc tcgtcatga 439

<210> 9167  
 <211> 166  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-C3  
 <400> 9167

gtattgctat gggatcctgt gccaaaacaa tactactacg caacaggatc ccatagcaat 60  
 acgagaaatg tgcaacgtct cataagaaca ggactgcat aaattgaagg aaagaatgat 120  
 ttccatcgat ttatgcagtg cctgttctta agagacgtag cacata 166

<210> 9168  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-C4  
 <400> 9168

ccccgctatc gcatactctt ccacggtcgc gcttctacgc atcaggatcc catagcggtg 60  
 cgagcaatgt gcaacgactc acaagaacac gcactacgta aatagaagga ccgactgatt 120  
 tcacatcgat taacgaactg cctgcacgac cgagacgtag cacatattga ggacagcgac 180  
 atgattctga cgcttcctgt cagagacatc tcgcacgagc tgatgacaga tccgaatgcg 240  
 tccatcgacc c 251

<210> 9169  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-049-Q1-K1-C5  
 <400> 9169

caagggcaag cggttcgcg ccggcgacgt gtcgcgttc aggtacaacg ccaaggcgca 60  
 caacgtggtg cccgtgagcg cggctgagta caggctcgtgc agtgcgcca agggcgtgag 120  
 ggcgtcacc actgggaacg accgcgtcac tctgaagcgc ggcgccaact actttatctg 180  
 cagcttccca ggccaactgcc aggcgcgcat gaagatcgct gtcaccgacg cgtgaggcct 240  
 tcggccgacg agccgtgctg gctacgacga ccgctggaca cacggtctcg atcgggtggcc 300  
 agcttattat tattgttatt tcctgttca aagtaaaagc gtcgcgtcct taacctgcgt 360  
 gtaggtagag cgggtgttagg tgtgtagaga ccggccggca ctattgaaaa cttaa 415

<210> 9170

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C6

<400> 9170

gagaccaaca agcatcatag aaagtggaat ccagtagcaa caatagagca acaatggcga 60  
 ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120  
 ttttccctca atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa 180  
 ttatagcttc aatatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240  
 cagcaagcaa cataccttta tcgcccttgt tgtttcaaca atcgccagcc ctatctttgg 300  
 tgcagtcatt ggtacaaacc atcatggcac aacagctgca gcaactcgtg ctacctctga 360  
 tcaaccaagt agctctggca aacctttctc cctactctca gcaacaacaa tttcttccat 420  
 tcaaccaac 429

<210> 9171

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C7

<400> 9171

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 ggcactaaga ttgctgtaaa acggttaact gattacgaaa gtccagggtg agaggctgct 120

ttcttgcgtg aggttgagct aattagtgtt gcagttcacc ggaatctttt aagattgatt 180  
 ggtttctgta caacacaaac agagcgccta cttgtttatc ctttcatgca aaatcttagt 240  
 gtggcctacc gactacgaga atttaaactt ggggagccaa tattagactg gtctgcaagg 300  
 aagcgagtgg ctataggcac agctcgtgga ctggagtatt tgcacgagca ctgcaatcct 360  
 aagattatac atcgtgacgt caaggctgcc aatgtcttgc ttgatgaagg ttttgaac 418

<210> 9172  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C8

<400> 9172

cccacgcgtc cggcgcggag agtgagagcc cgggagaagc agcggctggg agcaagatgg 60  
 tgcagcgctt cacctaccgg aagcggcaca gctacgccac caaatcgaac cagacccgcg 120  
 tcgtcaagac acctgggtgg aaacttgtgt accagtacac caagaagcgc gcgagcggac 180  
 cgaagtggcc agtcaccggg aagaagatcc aaggaattcc acacctgaga cctgctgagt 240  
 acaagaggtc caggttggca aggaacccaa ggactgtgaa tcgtccatat ggtgggtgttc 300  
 tgtctggtac tgcagttagg gagaggatca tccgtgcctt tttggtcgag gaacagaaga 360  
 tagtgaagaa ggtgttgaag atccaaaaga ccaaggataa ggccttcaag agctagacga 420

<210> 9173  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D1

<400> 9173

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 tgaaagcaaa gatgccaaca ctgaaggaaa tgaaatgcct gagattccat caactattcc 120  
 atttatgcct gatgcgtcac caaagactat gaagcaactc tatatgacat cgttctctgt 180  
 catatctggg ataatcattt ttggaggctt gatagcccca gtacttgaac tgaaactagg 240  
 gctgggtggc acatcttatg aagatggtat aaggaccttg cacttacctc ttcaattgag 300

tcacgtagat cctatagtg catcattttc aggtggcgca tttggtgtta tctcagcttt 360  
aatgttggtc gaagtgagaa atgtcaggca gcaagagaag aaaagatgca cata 414

<210> 9174  
<211> 278  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-D10  
  
<400> 9174

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taaccaatgt gaacacagaa tacttgagaa accaccagtt gccgaatacc acgacttatg 120  
ctagttcaaa ggcatacagt ttcacgaacg tgcagactga tgtactgtct tcaaagggtca 180  
cacttctaaa gcacaagggt gaagtccccg aggttggtta tgctattcac gagtgatctt 240  
gcatgcctgc attcatacaa tcatattctg aatctgtg 278

<210> 9175  
<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-D2  
  
<400> 9175

gccacgcgtc cggatccact acctcagaca gttgtgagt caccagcgta cacgaactgc 60  
aggggggcaaa ggtaccagct ctgaatgaca tgaactgcc gagatgtcat caactgtgcg 120  
atctatgcat gactcgacag cctacactat gaagccactg tatatgacct gatccgatgt 180  
catatctggg atcatcatgt tagacaggct cgatcgcccc aatacttgaa ctgaaactac 240  
ggctgagtac cccatgttat gaagatggta caaggagctt gtactgacct ctacaatcga 300  
cttacgttaa ccctatacct gcatcatacg caggaggcgc atcagctgtt atctcagcat 360  
atactgatgg ccgaagtg 378

<210> 9176  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D3

<400> 9176

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ctgaactacc gggaggtcat ttctatcctg atgcaactcc atgtacttgt tgatggcaag 120  
gtcaggactg acaagaccta ccctgctggg ttcattggatg tcatttccat cccaagaca 180  
atggacaact acaggctgct ttatgacacc aagggccgct tacgtcttca cacaatcacg 240  
gatgacgatg ccaagttcaa gctctgcaac gtgaggtctg ttcagcttgg ccagagaggc 300  
atccccctacc tgaacaccta cgacagccgc accatccgct accccgactc gtcatacaag 360  
gccaactaca ccatcaagat cgatctgtag accaacaatga tcat 404

<210> 9177

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D4

<400> 9177

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tgggagggaa aggtacaatc tgatgctgaa gaattactca tcatcaagac cagggaaatca 120  
cttctggatg ccttgactgc acatgtcaaa gccaatcatg aatatgatgt tctgaagtt 180  
attgctctgc ccataactgg tggtaacacc aagtatttgg aatggatcaa gaacagcacc 240  
cgggacaagt gatctctttt tttttggagc tcgacataat gcgatgatcg aagtgcccat 300  
ggctccttag ctctccagt ggcttgacac caaggggtga tctctcttg acctggacat 360  
ctcaattacg ttgctgtacc gaatccatat ctaccatctt caggtaacaa gtgatttgg 420  
gtcccgtgtg ggtaatcca 439

<210> 9178

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D5

<400> 9178



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 agttcgacca ggaggctgac ggggaggaag aggacaatgc tggagagacc agcgatccag 120  
 atgacggcag tgtgcagtac ctgaggagga ggctcaagga ggagatgctg ctgaaggagg 180  
 ttgcgctcga ggagctggag aaggagaggc atgccgcagc gtctgcagcc gacgaggcca 240  
 tgtccaagat tgcgtgcctg cgtagcgaga aggcgctggt ggagagggag gcgcggcaat 300  
 tccaggagat gatgcagcag aagcagatgt atgaccggca ggtgatcgag tcaattcagt 360  
 gggatgatcat gaagtctgga atgcaaggct gggagccaga ggccataact gatcg 415

<210> 9179

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D6

<400> 9179

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 ccgcctgccg ttccagggtg cactgccgcc attgctcatc tcccgtggt gcggagggtcc 120  
 acccgggcgc caattggtct cctctttcgt tggcagactg agtggcatcc aatcctgaat 180  
 caatgagggg ctggggtttg ctggtgttat cgctacatgt tctttcatgc ctggttagt 240  
 gcgttgcttc tggcgaaca agctcttatg tgcgcacaga gttcccatct acagatatat 300  
 ctctagaaag tgaatggttt gctattccaa agggatacaa tgctccacag caggttcata 360  
 tcaactcaagg tgattatgat ggaaaggcag ttatagtatc ttgggttact ccagaagaac 420  
 ctgggccaag tgaagt 436

<210> 9180

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A4

<400> 9180

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 agtcgatcct gcagcaggag ccgtaaagcg gacagatcgc ggtgctgatg gcggcgcaga 120

tcgcgcacca gctgaccgcc gattgcggcc tgcagcagcc gactctatgc ccctacgctg 180  
 ctgccggctg tgtccccac tgaagaaact atgtgctgta gtatagccgc tgcatagcta 240  
 gctagttagag tcatttagcg gcgatgactg agttatcatg tggcacgcat caccatgggt 300  
 ggcaagtgtca gtgcgagctg agaccctaataat gaacaatgga actgaaacgc agcaagtcac 360  
 gacacacaac atagtcgcta tgaga 385

<210> 9181

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A6

<400> 9181

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 cagcagccgc aaagcggcca ggtcgcgggg ctgttggcgg cgcagatagc gcagcaactg 120  
 acggcgatgt gcggcctgca gcagccgact ccatgccctt acgctgctgc cggcggtgtc 180  
 cccactgaa gaaactatgt gctgtagtat agccgctggc tagctagcta gttgagtcac 240  
 ttagcggcga tgattgagta ataatgtgtc acgcatcacc atgggtggca gtgtcagtgt 300  
 gagcaatgac ctgaatgaac aattgaaatg aaaagaaaaa agtattgttc caaattaaaa 360  
 aaaaaaaaaa ctaaatcaaa caaataa 387

<210> 9182

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A7

<400> 9182

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 gtcaaagcct gcaccagggg gggaaaactc agaaccgat acacaagtct caccagacag 180  
 gctattgcga gcagcccttt tgaggagccg ttatgctgat gtgattgtca aagctcgtgg 240  
 cattcttagt cagggtggag acaaacagga agagctggaa aagctacaga aggaagagaa 300

agagcgcttg ttggctgaag gtactgcagc catggaggct tgtagagccg aagctgaaac 360  
tgaaaagaag cgt 373

<210> 9183  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-A8  
  
<400> 9183

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ctccttatgc tccttggctc ttctgcaagt gctgctaccg cgaccatttt cccgcaatgc 120  
tcacaagctc ctatagcttc ccttcttccc cegtacctct caccagcggg gtcttcggta 180  
tgtgaaaacc caattcttca accctatagg atccaacagg caatcgcagc tggcatctta 240  
cctttatcac ccttgcttct ccaacaatca tcagccctat tacagcagtt acctttgggtg 300  
catttattgg cacaaaacat cagggcacaa caactacaac aacttggtgct agcaaacctt 360  
gctgcctact ctgagcaaca gcagtttctt ccattcaacc aactagctgc attgaactct 420  
gctgcttatt tgcaacaac 439

<210> 9184  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-049-Q1-K1-A9  
  
<400> 9184

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cctgcccctg cgcggggctg cagggcttgt acggcgctgg cgccggcctg acgacgatga 120  
tgggcgccag caggctgtac ccctacgcag agtacctgag gcaaccgcaa tgcacccgc 180  
tggcagcggc gccctactac gccgggtgtg ggcagccgag cgccatgttc cagccgctcc 240  
ggcaacagtg ctgccagcag caaatgagga tgatggacgt gcagtccgtc tcgcagcagc 300  
tgcagatgat gatgcagctt gagcgt 326

<210> 9185

<211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-B10  
  
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 cccttcgccc tcgccggtgg aggctaccct accgcctgag gccgcggctg ccgccgagga 120  
 agaccagtgg gatgctgacg gatatgttat tcctaatttg cccactcaag ataatgatgt 180  
 ggctgagcct agtgtcccca aagaaaaaga tcctgagcct ctacaggcaa gcgatgagaa 240  
 aatatatctg ggacctcatg gagctccacc atctcaagca aagcagcagg agctgaacac 300  
 cgttggccgc aagcagcggc tccggaacaa actgaaggaa gcagatagga aattctccgg 360  
 caatgctcag gagaacaaga tggagagcct aaggagctg ctgggtgcta gaggtggtac 420  
 tgggtaccagc ct 432

<210> 9186  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-B2  
  
 <400> 9186  
  
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 aaaaaggtaa aaaggataaa aaagaacata actatgagct atgtggaaca tactttaaag 120  
 ggggtgatgt ttttaatgga ttgtttttgc agtccttggc ttttcaaggg gagtctatta 180  
 tttgtttacc tttagtattg ttaatggcca gtagtttatg acattggggg ttcttataag 240  
 cgtggtctgc ctatactatt tccattttct ggcatttacc atttatcctg tcgggctatt 300  
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 gactaccct atgcgatcgt tt 382

<210> 9187  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B4

<400> 9187

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ttatttgcaa caacaactac cattcagcca gctagctgct gcctaccccc aacaatttct 180  
tccattcaac caactggcat cattgaactc tcttgcttat ttacagcagc aacaactact 240  
accattcagc cagctagctg gtgtgagccc tgctgccttc ttgacacaac aacagttatt 300  
gccgttctac ctgcacgctg cgcctaacgc tggcaccctc ttacaactgc aacaattgct 360  
gccattcaac caacttgctt tgacaaaccc agcagcgctc taccaacaac ccatcattgg 420  
tggtgccttc ttttagattt ct 442

<210> 9188

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B6

<400> 9188

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gagcaacaat ggcgaccaag atattttccc tccttatgct ccttgctctt tctgcatgtg 120  
ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc 180  
cataccttcc atcaatgata gcttcagtat gtgaaaaccc agctcttcag ccttataggc 240  
tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgttggtt caacaatcgc 300  
cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag ctgcagcaac 360  
tcgtgctacc tgtgatcaac caagtagctc tggcaaactc ttctccctac tctcagcaac 420  
aacaatttct tccattc 437

<210> 9189

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B7

<400> 9189

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aacttgactg ctcacacctt acatgcttca tagaggcatg taccattttg ttgtgatgag 180  
tattgcttct atcaatgata gcgctaatat gcaagccctc aactctgcat ccatatatgc 240  
tcttactggc tattgtgggt agctgcatac tgagatgact atagatggca taacagtca 299

<210> 9190

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-B8

<400> 9190

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gactatcagc agccaccgcc gcctcattct cgcagtcgcg gtcttctctt ccgtgtctgc 120  
ggatgccagc gccagcgccg ggaccttctg cgagccgtgg tgggccatcc cgcacaaccc 180  
gctcccagc tgccactggg acgtgaccag ccggacctgc ggcacgccc cgcgccttcc 240  
gcgcccgag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
gtgcacggcg ctgagcatgc tcatggacgg cgcgatcccg gcggacccgg acgcgcagc 359

<210> 9191

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-A3

<400> 9191

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gtctctgcga ttgaggcaga tcttcaacgg gtgtatttcc tcaaagttaa caaggcaacc 180  
attaacatgc tgccgagggt ggagccatat gttgcgtacg gatacccaca 230

<210> 9192  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G8  
  
 <400> 9192  
  
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 acagcccatt ctcttccttt ctggattgca agatgaacta gtccccctc cacacatgaa 120  
 gatgttatat gacaaagctt ctgatcataa cagaaattgc agatttggtg attttcctag 180  
 tggatatcat atggatacct ggatgtctgg aggggaccgc tactggagga caatccaatt 240  
 gttcttggat caatacgtc ctggagtgca gaatcatgat gccagcttca aaagtgaat 300  
 tgcgaagat gatgaagctg ctgattgact ggaaaatctg gatcggactt tttccaaatt 360  
 tctggttcct gatgttgctg caatttggca 390

<210> 9193  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G9  
  
 <400> 9193  
  
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 gaagaagacc atgtgcaggg acacaagaaa cgaaaggcta cttctgcaca tctccaaaag 120  
 cttcaacagg agttgagtga tctcttgcaa tgccattgc agcctaagac tttctctcgc 180  
 cgctatattg ctggggctgg tgtctcacc ttacttcaga agcaactaga agagttggcc 240  
 aagagaaatg caagcaacaa tagcagcaag agtaagaata aaggatctgg gtttgttgtt 300  
 attggtcagg atcgtgtcga gcccttgcaa gcacttcaa attctgggca agaggtctgt 360  
 gtgaacatag acaaagaaag ggaaaagcga agagtcgctg agaactggag gcggaagaag 420  
 catg 424

<210> 9194  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H10

<400> 9194

atggccgggg ggtacccacg cgtccgcca cgcgtccgca gaatacagca agggcaatgc 60  
atatgctcag gttgccattg gcaccaatga tgtgtacaag agcgccgagg cggttgatct 120  
ggcgacaaaa gaactagggtg gcaagatttt gcggcagcca gggcctctac ctgggatcaa 180  
cactaagatc gcctcttttg ttgatccaga tggctggaaa gtggttcttg ttgacaacac 240  
cgacttcttc aaggaactcc actgaaggct cgggataccc aggtgctgtg ctaggatgta 300  
gtaatgcttg tctgtgggtg aataagatgt ggggtggttg tttctgccct gatgaactta 360  
taatactgaa tgttgctaca gaggttggtg tttctgccag gaggtttggg atttgctatg 420  
taactgtgcc tgcgggctcc gattctggcg ct 452

<210> 9195

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-H12

<400> 9195

ggggtcacca agggctaccg ctacaagatg aggttcgtct acgcccactt ccccatgagc 60  
gcctccatca ccaacagcaa caccgccatc gagatcagaa acttcctcgg cgagaagaag 120  
gtcaggaagg tggacatgct tgatggcgtg accatcctcc ggtccgagaa ggtcaaggat 180  
gagctcatcc ttgacggaaa cgacgtcgag ctcgtatctc gtcgccgcgc cctcatcaac 240  
cagaaatgcc atgtgaagaa gaaggatatc cgaaagtttt tggacggtat ctatgtgagc 300  
gacaagggcg tcattgaaga ggagcagtga gcgacagagt agccgaaatg ccaggagatg 360  
aatatggatg tcgtttgagt tgcaattttg tgagactgaa tgtgaaccct ntntctcatt 420  
ccttaaatag 430

<210> 9196

<211> 275

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3059-048-Q1-K1-H4

<400> 9196

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aaaaaagaag cgctcattat ataacgtgac catgaatata tccaccttct accgaatcaa 120  
catctctacc atattctacc tctaactcaa ttgcatcgcc tacgctttct tacgcaacac 180  
actggaaaaa caacgtgctt acccacttta actagccttt ctgactattc cactttttcca 240  
acatgcgctt atacctacaa ttccttgacg catat 275

<210> 9197

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H6

<400> 9197

acgttgccctt cgcgtacacc tactccatgc ttctcataga aatccaggac actgtgaagg 60  
cagggccatc agagaacgtg acgatgaaga gggccagctt ctacggcatc agcgtgacga 120  
ccatcttcta cgtctcgctc ggggtgcatcg gctacgcggc cttcggcaac gccgcgcggg 180  
ggaacgtgct taccggcttc gacgaagccg tctggc 216

<210> 9198

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H7

<400> 9198

cccacgcgtc cttattttga ttctgcactg ctcccgtgta caaacgtggg tctcaataag 60  
gcaggcagga atgcatctgc cagtggaaaca gagcaacctg cacattatct atgtatgcct 120  
gttcattgga gggcttgctt attacatgtt cgtctatact agaaaaaaca gaatattagc 180  
attaatctat agttaattaa agtatgtaaa tgcgcctggt ttttggttggt tactgtaatc 240  
atctgagttg gttttgtgaa attttcgtaa aaagaatgaa tgtaaaatcc agaaaatgta 300  
atgccgtgta atatccttat ggaacaatgt ataatctttt ttctcaccac caccagtttc 360

ttccattcaa ccaactg

377

<210> 9199

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H8

<400> 9199

agaccaacta gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatttg 60

gcttgcttat gctccttggc ctttctgcaa gtgctgtctac ggcgaccatt ttcccgaat 120

gctcgcaagc tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg 180

tatgtgaaaa cccaattctt caaccctaca agatccaaca agcaatcaca gcttgcat 240

taactttatc acccttgggc cttcaacaat cattaaccct attacattaa ttacctttgg 300

tgcatttatt ggcaaaaaac attaaggcac aacaacttcc acaacttgtg ctaacaaacc 360

ttgctggcta ctcttaacaa cagcagtttc ttccattcaa ccaactatct gtattgaact 420

ctgcttctta ttgcaacaa caacaac 447

<210> 9200

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H9

<400> 9200

aaacgttaca aggcagagcg agcaaaatat tcggcatttc ttgcttccca ggcgacagcc 60

tcctgatctg gtgatgatta gcaaggattt gcaccagaaa attctgaacg tttatatgaa 120

gctgatggcc actattggta ctgcacatag tggagactgg agagtaagca aactgcagc 180

gtcacttggt ctaatgctca cggaagtggc taggatgtcc aggtgatgtc aggccgagag 240

ctatagtcga aatctctacc aattgagcag ttcttgtaac ccagattttg ttccatagata 300

cctcatagct actcacattg aagttttttt ttttttaaaa aaatatatat ttagaaagga 360

cagacattaa gattcc 376

<210> 9201

<211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-A1  
  
 <400> 9201  
  
 gtgtttcttg tgaggtttta tatattttcc tgtttctctc tgctgatgag gagtcaacaa 60  
 gcttgcttag tgtatgcaaa ggcattctga accaaagtcc cgtcgttata ttggtgtttg 120  
 tttccactct agtaggctgg gcagtgaagc aagccaccaa cgtcatccag atgaaaactg 180  
 ctgcggacgc atgcgtggtg tatgatctga agcgcaccag atgaagcatg aaagcagctt 240  
 cacggcttag tatcgacata tccaagggaa aactctgcga gggggcgggc tacatcttgc 300  
 gtgccttgac atctttctga tgatgcggtc atatgttggg ccaggggatt ac 352

<210> 9202  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-A10  
  
 <400> 9202  
  
 cttggccctc actgagcagc cttccaagtt tgatttttac gatccaaaaa cacctttcgt 60  
 cactgcaccc cgatgcttgc ctacgacgca attggacaag tgcacgatga aatatgcatt 120  
 tatctcacat gggtgcttac tgagagaatg caacatcgag cattctgaga ttggagtctg 180  
 ctcacgtgtc agctctggat gtgaactcaa ggactccgtg atgatgggag cggacaccta 240  
 tgaaactgaa gaagaagctt caaagctact gttagctggg aagggtccag ttggaataag 300  
 aaggaacaca aagataagga actgtatcat tgacatgaat gctaagattg ggaagaacgt 360  
 ggtgatcaca aacagtaagg gcatccaaga ggctgatcac ccggaagaag ggtactacat 420  
 aag 423

<210> 9203  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-A11

<400> 9203

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gccgtcgaca ggggaattaa tggcgtcgtc gtctagcagc agccaccgcc gcctcatcct 120  
cgcagccgcc gtctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg 180  
cgtgccgggg tgggccatcc cgcacaaccc gctcccagc tggcgctggt acgtgaccag 240  
ccggacctgc ggcacggggc cgcgcctccc gtggccggag ctgaagagga gatgctgccg 300  
ggagctggcg gacatcccgg cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg 360  
cgcgatcccg ccggggcccg acgcgc 386

<210> 9204

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A12

<400> 9204

gggtgggttgg cttctcctcc ccttccttcc cggtttcggt tccgtgaggt tctccggggg 60  
tcggtttcgt ggggtgaacgt atcgagatgg cgtcgtcgga tgttgagtac cgctgcttcg 120  
tcagcggcct cgcctgtgcc acggacgacc actccctcca caacgccttc agcacctacg 180  
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagatgtcc cgcggcttcg 240  
gcttcgtcac cttctccacg gaggatgcga tgcggaacgc catcgagggc atgaacggca 300  
aggatctgga cggtcgcaac atcacctca acgaggccca gtccc 345

<210> 9205

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A2

<400> 9205

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gacggttatg gggatgtaga gaacatcctt gttgaaatgg gaacatactt tcaagtccag 120  
gatgactatc tggattgtta tggatgatcct gaatttatcg gcaagattgg aacggacatt 180

gaagattaca agtgctcatg gctagttgtg caagcccttg agcgtgctga tgagagccaa 240  
aagcgcattc tatttgaaaa ttatggcaag aaagatccag cctgtgtggc taaagtgaag 300  
aacctctacg aagaacttga cctagaggcg gtatatcagg agtactagaa tgagagctac 360  
aagaagctga ttgcagacat tgaagcccag ccaagcattg cggatcagaa agtgctgaaa 420  
tcct 424

<210> 9206  
<211> 404  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-048-Q1-K1-F11  
<400> 9206

gtggagctct gtggaggctc ttctgtcgtg atgttccatg gggacctccc ttactgggca 60  
aaagacatcc tcaagaagct agagactata gatgaagaaa atatcattgg agcaggaggc 120  
ttcggaaactg tttataaaact tgcaatggat gatggcaatg tctttgcttt gaaaaggata 180  
gtgaaaacaa atgaagggct agatcgggtc tttgatagag aacttgagat attgggaagt 240  
gttaaacatc gctatttggg caatctccgt gggtattgca actccccttc atcaaaactt 300  
ttgatatatg attatcttca aggtggaagt ctggatgaag tgcttcatga aaatcttgac 360  
agttggattg gatgcaacgt attaacatta tacttggagc tgca 404

<210> 9207  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-F12  
<400> 9207

ctgtgcatct cccaccgccg gtccacctgc cgccgccggt ccacctgcca ccgcctgtcc 60  
atgtgccgcc gccggttcat ctgccgccgc caccatgcca ctaccctact caaccgcccc 120  
ggcctcagcc tcatccccag ccacacccat gcccggtgcca acagccgcat ccaagcccgt 180  
gccagctgca gggaacctgc ggcgttggca gcaccccgat cctgggccag tgcgtcgagt 240  
tcctgaggca tcagtgcagc ccgacggcga cgccctactg ctgcctcag tgccagtcgt 300

gccgcagcag tgttgccagc agctcaggca ggtggagccg cagcaccggt accaggcgat 360  
 cttcggett看 gtcctccagt ccctcctgca gcagcagccg canagcggcc aggtcgcggn 420  
 gctgttgg 428

<210> 9208  
 <211> 217  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F3

<400> 9208

cacacgcgtg gggttgtctc cctgtcgctt tccgtgccta gatgtagaac cggacccgca 60  
 gaggcgaggg ccgcctatat tctactccta ttagaacgcc cgtgaccggg attacgtgga 120  
 gcaagcgogg atgtcaacgc tgcactcaga gtctaccgtc gaatccccc tcaaggcggc 180  
 cgaatacaag gacaccgtaa aggccgatca ccagctg 217

<210> 9209  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F4

<400> 9209

ggaagatgag ccactaaatc cttagacgtc gacagaacca tacgtgcaaa tcagatacga 60  
 agggggggaga cacagagcaa ttcatttcca cccgtgcaat aagatggaag tcagaaccat 120  
 gtagttgttt tcgtttgtaa ttttctttct atagtgtgaa atttgacaag gctgttagtt 180  
 tgcacctcgg atctgcttat atccacaggg caatcgatag ttcagcaagt attgagctat 240  
 acctatgtcc cgagaagatt agatgagttg gcgtcttggc gatcgatgtg ggcttttccc 300  
 gttgttgttc cttgcaattt attttcgaaa aaaaaagaaa catgttcgct ttaagcttta 360  
 ccattccggt 370

<210> 9210  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G10

<400> 9210

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aagtacctta aaataatgac cgagagacat gtagaggggc tattaaggca tgatccacac 120  
gaatatcatc tgccatcaaa agctgcatgg tgcagacata cacagcaagc tgcaaaccct 180  
ttgctaggct actctactgt ggaactcact ggctaattac ctggatcggc tcttactagc 240  
cagctcacat ccatccgtat gcaactctgat aattgacaac tgccatcata ccctactatc 300  
atatgaacca cagcatcatc ttgcacacgt cggtcccatt ctagaaccag cagttctaga 360  
tgtatgagct tatcctggac aacctgcacg gtctgatcca tcagcactat ct 412

<210> 9211

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G11

<400> 9211

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ggcgaggatg gggcggaagc ggaaggagtt gctgtcgtcg gctccatgga ggacggggga 120  
ggcggcggag gacgaggacg cggcaaggat gagccgagag gggaagggtca gcgtcaccag 180  
caaccccgga gagacgcca ccatgagcgt gcccggagc aagcgccagg acctcgacct 240  
caccgtcgac gacttcgagg aggacgagat cgaccccgag ctgcgtact ccttcacagc 300  
gaacagcagg tttctg 316

<210> 9212

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G12

<400> 9212

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actgtacacg gacagtggaa gcaccatgaa gtcaagggtga aggactccaa aacccttctc 120

tttggtgaga aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat cccgtgggggt 180  
 tcggttggtg ctgaatatgt tgttgagtct actggtgttt tcaactgacca ggagaaggct 240  
 gcagctcact tgaaggggtg tgccaagaag gttgtcatct ctgctcctag caaggatgcc 300  
 cccatgtttg tcgttggtgt caacgagaag gagtacaagt ctgacattaa cattgtctcc 360  
 aatgctagct gcacaaccaa ctgccttgct cctcttgcta aggtcatcaa tgacaagtcc 420  
 ggtatcg 427

<210> 9213  
 <211> 154  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G2

<400> 9213

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 aactggccgg ccatttatca cacctggctg gtcgactcaa gcaagccggc ctttaggtca 120  
 ctggctgctg acttcaacca ttacgctgac agct 154

<210> 9214  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-G5

<400> 9214

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 ttgcaacaac aactaccatt cagccagcta gctgctgcct accccaaca atttcttcca 180  
 ttcaaccaac tggcatcatt gaactctcct gcttatttac agcagcaaca actactacca 240  
 ttcagccagc tagctggtgt gagccctgct gccttcttga cacaacaaca gttattgccg 300  
 ttctacctga acgctgcgcc taacgctggc accttctaac aactgcaaca attgctgcc 360  
 ttcaaccaac ttgctttgac aaaccaagca gcgttttacc aacaaccaat aattggtggt 420  
 gccctcttta agatttctaa tgagttatag ttcaatatta aagttt 466



<210> 9215  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-F10

<400> 9215

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atccaaaaac taaaccaa atctccccatc gatcccaact tccagtcgat ctctctgctc 120  
ggctgttgcc tcccaaagcc gcgccttaca acgagattcc tcccctctctc tctccaataa 180  
ccctagcctc ctccgccgcc ggcgacgaat ccggcgtttt gagtttctgt tgccagcgta 240  
gccatgtcca tgttcaatag gatcttcggg aagcccaagg agcaggccaa ctccaatggc 300  
ctggccactc tggacaagtt aaatgagact cttgatatgc tggagaagaa agaaaagggtg 360  
ctggagaaaa aagcagccgc tgagctggag agagccaagg agttctcana agctaagaat 420  
aaaag 425

<210> 9216  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D2

<400> 9216

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cttgggaggc aaatgaatcg tagtaaaact gtggaacaag cgatgctgat gatggcacia 120  
aggaaatcat gcaagataac tggcttgtgc tacttttcag ggagcttgaa aagcaaggca 180  
tcactttgcc tgataggtac actgatgatg agttacacag attttatgtt gctgcaaagt 240  
gtgactttga aagtctactt tattctggta agaagacaat tcattgtaag gaaacatatc 300  
acatacttac atagc 315

<210> 9217  
<211> 322  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D3

<400> 9217

aaaaaaaaa agaaaaaaca aaaaaaaca aatttatattt aaaaaaaaaa aaaaaaaaaa 60

aaaaagaaca agaaaaaaaaa aaaaaaaaaa aggccaaccc atctaataaaa tccaaccttt 120

cttacacatc catccttacg tcatagttct tccataactca tacctaattt caattcactc 180

cccattttat tacactgcct caacttttaa aaccttggca ttaccaaaact tattcctttt 240

ccaaactata cccctttcca caacttcccc atttcccaa atgcctaac agataaaatt 300

tccaacagt ttcccattct aa 322

<210> 9218

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-D5

<400> 9218

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ctggcaacca aagatgggtg tggccgtggc cgagaccgta atggttctga tatgaagtgc 120

tatgagtgtg gtgaagttgg ccactttgca cgtgaatgtc gcttacggat tgggttcggga 180

gggctgggta gtggaaggcg tcgcagccga agtcctagat atcgcagccg gagccgaagt 240

cgcagccgga gcccaagaca tcgaaggagc ccaagctatg gcagaaggag ctacagccca 300

cgagatcggt ctcctaggag gcgaagttac agcatgtcgc cgnactgcc accaccgnct 360

cctagaaata acagcatgtc accacggnga gcccagaaaa tgagcagatc gtcaccacca 420

cctcccataa ataacagcag t 441

<210> 9219

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D6

<400> 9219

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttgttt c 271

<210> 9220  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D9

<400> 9220

cattgagagt gctaataagg agattgccct gtggttcccc gagggccctg ctgatgggca 60  
 gagcagccag cacccttgga tctacgagaa gtaaacaatgg aaagtttcac atcaaaccctt 120  
 gagagccaga ggaagcatgt caccatttgt gcttttagcaa tgttttcgaa aagattatga 180  
 tctgtatctt ggaaccttat ttcaatggac caaatttctt tc 222

<210> 9221  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E10

<400> 9221

caactctgac ggcagcgagc cagagcttca ctattcatac tgggtgctggg aagatcgtgt 60  
 cctgaaatac aaagtgatgg gcaggtaaag gttgatatgg gagagcccat cctttctgga 120  
 gcagacatcc ccacaaaact ggtagctacc aagaacaaag ctgttatcca agctgagttg 180  
 gcagttgagg gcttaacatg gcatgtcaca tgtgttagca tgggcaaccc cactgtgtc 240  
 acatttgagg caaacgagtt aaagaccttg cagatcgacg atttaaaact cagcgaaatt 300  
 gggcctaaat ttgagcatca tgaaatgttt cctgctcgca caaacacaga gtttgtacag 360  
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<210> 9222  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-E11  
  
 <400> 9222  
  
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 agattttttc atgggtccag ccaacagcaa gtacatcttc cccctgaacg ttttcagtgg 120  
 tccagaaggc tctctacac atgtcagaac tcttcactctg ggctatgtct gtctggacac 180  
 aacctcgtct gatttcatga tctttgcaaa tcttaagaag ctactctgc aaaaatttc 240  
 ctttttgga gacctccagt gctgatgct gccagaatgc aattctcttg agtgtctgag 300  
 catcagcttc tgttccttgc ctggtttaag cacatgcaa ccgctgcaac gtctgcaatg 360  
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 gttt 424

<210> 9223  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-E12  
  
 <400> 9223  
  
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 tgtcactggg tctaccggtg ggggccacgg tgaactgctc ggacaacacg ggcgccaaga 120  
 acctctacat catctccgtc aagggcacatc agggccgcct caaccgcctc ccgtccgcct 180  
 gtgtcggcga catggtcatg gccaccgtaa agaagggaac gcccgacctc aggaagaaag 240  
 tgatgccgcg cgtcatcgct cgccagcgca agccgtggcg tcgcaaggac ggtgtctaca 300  
 tgtacttcga agataatgct ggagtgattg tgaatcccaa gggtagatg aaaggttctg 360  
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 caaatgc 427

<210> 9224

<211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-E2  
  
 <400> 9224  
  
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 cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg 120  
 caacatcacc gtcaacgagg ccaggtcccg cggcggccgt ggaggcggcg gcggtgggta 180  
 cgggtggggc cgtggaggcg gcggtacagg cgggtggcggg cgccgtgatg gcggtggcgg 240  
 ctacggcggt ggcggcggtt acggtggcgg cggcgggtac ggtgggtggtg gcggcggtta 300  
 ccgcggtggc aaccgtggcg gcggtacagg caactncgac gggaactgga agaactgagc 360  
 ggtggg 366

<210> 9225  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-E5  
  
 <400> 9225  
  
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 gatgctggat ggccaagtgc aagaaccaca cggcgcataa ccagtcgttc aaggcgcaca 120  
 agaacggcat caagaagccc aagcgccacc gccagacctc caccaagggg atggacccga 180  
 agtttctgag gaacttgagg tactcaagga agggcaacaa gaagagtggc gaggtgagt 240  
 ccgaggagta agatgatggt gattgagttt gtggcgacaa atgcatctct tgtatcgcta 300  
 agagtcttag ctgtgaactt agttctcact tctgtgtgac tgtgatcaaa ggacttgtgt 360  
 atgata 366

<210> 9226  
 <211> 292  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-E6

<400> 9226

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accgctgctt cgtcggcggc ctgcctggg ccaactgacga ccactccctc cacaacgcct 180

tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcacatgt 240

cccgcggctt cggcttcgtc accttctcca cggaggatgc tatgcggaac gc 292

<210> 9227

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E7

<400> 9227

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cctgctaatt cttcagatag gtccgacagg tctgataaac ctttggacca aaagacaatg 120

cgacggcttg cccaaaatcg tgaggcagca agaaaaagtc ggctgaagaa aaaggcatat 180

gtgcagcagc tggagagcag taagctgaaa cttgcacaac tggaaacagga actccaaaaa 240

gctcgccagc aggaaatctt catttttagt tttgaaaacc aaaccaatcc aataattgaa 300

aatgaacctt tgacttttgc cttaaatttt gctaaatggg tagaggacca aatt 354

<210> 9228

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E8

<400> 9228

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tcagtcacaa gcagaccggc aaggtccgcc tagtcatgcg ccaggctaaa acgcttaaga 120

tctgcgcgaa ccacctcgtg gcctccacca cgaagatgca ggagcatgcg ggcagcgaca 180

agtcgtgtgt ttggcacgct gctgactttg ccgatggcga acttaaagag gagatgtttg 240

ccatcaagtt tggttcggta gaaaactgga agaagttcaa ggaattgggt gaagaaatag 300

ctgaatccct tacaagaac caaggccagc gaagttaaaa ttgtggttcc aacgcttgat 360  
 tggttgcaa acttaattgt aaccaaggcc aattttaagg 400

<210> 9229  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E9

<400> 9229

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 acgtcgagaa gccgcccccc gccgcgtgag ccgcgcggcg ctgctaggcc agcccacact 180  
 gctgctcgct cataaaaagg gcggcgggag agcctggcag tggcaggcac tctgctcgtg 240  
 ctcgccgggg ctgggctccc tgcttatatc actgcattat tatactacta gtagtggtgc 300  
 tggatagcag tgtgtggctg tgctaatacc agtataatac tggttctact ataatacagt 360  
 cgtatcaggc atggcgtgca tcaggactgg ttgtgatagt agcaacgtga tgctcgtgcc 420  
 tgtaat 426

<210> 9230  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D12

<400> 9230

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 tgttcaacat tcatctggtt aaattacaat ggttaatttg aaatttggtg agagcgcagc 180  
 ttcgtgagtc caagggcatg acaacaatca aacttcgtcc aactgtggg gaggctggtg 240  
 atatcgatca cttgctgca gcatttctta cttcacataa cattgctcat ggggtgaacc 300  
 taaagaaatc ccctgtactt cagtacctgt attatcttgc tcagattggg ctagcaatgt 360  
 ctcccttaag taacaactca ctgtttatcg actatcatcg gaaccctttc ccaacatttt 420

tctta

425

<210> 9231  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-B5

<400> 9231

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ggaggaggga gccgctgcgg cgcggggccg tcagcgcgcg cctcccgggtg ccggaccaca 120  
tacgcccggc gccctacgtc ggcacggccg ccgtcccggg ggtgtgcccc gaccggcagg 180  
tgcacgacgg cgagagcatc atgcggatgc tggacgcctg cgagctcgcc gctcgggtgc 240  
tgcaccatgc cggggcgatg gtcaagccct cgggtgacgac ggacgagatc gacagggtgc 300  
tgcaccagat gatcggtgac gccggcgccct acccctnccc tctcggatac ggcggggttc 360  
ccaagagcgt gtgcacgtnc gtgaacgagt gcacctgccg cg 402

<210> 9232  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B6

<400> 9232

taaaagtgc gcccaattac tgccctcaat gttttgttag acttaatggc tcactacgct 60  
aacggtcggt gtaattatat acatacatct acaataacat ctgtttaagt tacacaagct 120  
caaaacaaat ggctccttag ctccatcggt ttgttgctgc gtgttcacga tattccatcg 180  
gcgaacattg acaactctgc cagcacatg actatttgtg ttcaaccttt a 231

<210> 9233  
<211> 462  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-B7



<400> 9233

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ctagcaagat attatccctc cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt 120  
tcattattcc acaatgctca cttgtccaa gttccattat tacacagttc ctcccaccag 180  
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240  
cggcgagcgt tttaacaaca ccaatttccc aattgcaaca acaatccttg gcacatctaa 300  
caatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccacctag 360  
ccatggtgaa ccctgccgnc tacttgcaac agcagttgct tgcacaaac ccacttgctc 420  
tggcaaacgt aattgcaaac cagccacaac aacagctgca ac 462

<210> 9234

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C1

<400> 9234

tgtgttgatc cacagctact ggtagcaaga gcttctatcc ctgctgatgg aagtgtgcgc 60  
aatgccaatg ttgacattat cgtgggtgat gctattatgt tgtgggtgat tattggatat 120  
gtttgctggt taatacacat tgttgtag 148

<210> 9235

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C10

<400> 9235

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tcgagagacc gtctatctgg gggatctaata caagcatttc gaccacacta tcaggctaga 120  
tgactgttat atgtacagaa cttacagctg tagagtagag ataagcacga gagcgaggaa 180  
ttgctggggg atgccgagcc gcctgatctg attgtagttc agtgccttg tcttggtgcta 240  
attgctagaa aatgaatact ccagcaaaa aaatatgtaa atgcagctga agtgtacgat 300

tactaacttc tacttaatta aatcattctc agatacaggc tttttcctgc tcgtaagttt 360  
gaatatatat ttaaaaaaaaa aaaaaataaa taaaaaaaaa aaaaaaaaaa ataaaaaaaa 420  
aaataaaa 428

<210> 9236  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C12

<400> 9236

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tgctgcagcc ttcgctcagg gacatacaac agatgcagca gaagaggcac catggcggcg 120  
tctccacag cccaaaaacc cagacatcgg gcttctctat accgccccac agcggagcgc 180  
cagaggccgc tgtggggcgg tatagagaag cccacagcg gagcgccaga ggccgctggc 240  
ggctcggggcg tgaaggacaa cgtgccaac cgggtggttca ggccggagac cgacgccccg 300  
tcctccatcc gctccatcca gatcgaggag caggctatga aggacttcag gcgcttctac 360  
agcagcgtga ggatcgtcaa gccgcatgtc tagtagcact ggatgcggcg gc 412

<210> 9237  
<211> 157  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C2

<400> 9237

cctcaattcc cttatccacc cacgcgtcca ctcaactaac acaccactct accaccaact 60  
cttttattat tcaccacaac ttacctctct atagactgga tttctaacia aaccttttcc 120  
ctcctcatcc tccatccttc caattcatat catctta 157

<210> 9238  
<211> 388  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-C3

<400> 9238

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cccggatgag gttgacacgc taaaagacca gttgatccat gtgacatcct tatctggctc 120  
tgggttcaac atcctagtgt gtgatggcag ccttgacta gcgtggcata atcgcccgtt 180  
atatgtggca acagcttggt gtgtgacagg aagaaatgct gccagttcca tggttggcaa 240  
catctgtaaa ggtacaaatg ataatagaag aaaggaaaac cgtaatggac ccatggagta 300  
acaggaaaga taaccatgtc atgaacaaat cgatcaagtt attaaatgca ctgttgactt 360  
ccaaaaaaaa aaannttat ttttttac 388

<210> 9239

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C4

<400> 9239

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cgagccgtgc cccccgccgg ccatgtcgaa gcaaggaggg aaggccaagc cgctgaaggc 120  
gccaaggctc gacaagaagg agtacgacga gagtgatctt gcttatttgc agaagaaaaa 180  
agatgaggaa aaggcgctga aggagctgaa ggccaaggca cagaagggag caattggagg 240  
ctcgggtctc aagaaaagtg gaaagaaatg agcattgccc acccaccat ctccaaaaca 300  
cctaagagaa cgaatagaca actgcttatc tgggttgggc ctactatat gatatatggg 360  
gcttggaaaa catggtgcct cttggattcc cgggttcgag gtggtccaat tggtttgctt 420  
ggatcc 426

<210> 9240

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C8

<400> 9240

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 gggatttcat agcatattgc ggaggaccat caaaaagcac atcaaattgc acatgcccct 120  
 tgcaagatcg aatccatgat taaactactc ttctagcaca ttctactatc cgtaatatga 180  
 ctctatctaa cttatatc 198

<210> 9241  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D1

<400> 9241

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 caggaaagag gcgaggccag tgaatactga tgtggctgct ggtccatcca ggactccgaa 180  
 gaagaaagag aaagccgcat cctcttcggc gtcgggtgtca gtgtctgggt cggggtcagg 240  
 atcgggggtct gtatccaagg atgtcgctgg aaagcgggcg aagagggcgc agaagcgaga 300  
 agctgcagac aaggcaactg cagagaagca cctgaagcac ctgcagaggg ttgggctgag 360  
 aaaatcgcca gagcctgtag tgcccgcga gggtgggcca cagggtgaatg agtgacttaa 420  
 gccggcgccct aatgctata 439

<210> 9242  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-D10

<400> 9242

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 taactcacia attccacaaa aaataagcac ttacacaatt ggccctttcc aaacctccaa 180  
 cggagagaag gccaaactga aagtgaaggt ggcgtctcaac atccatggga ccgttacagt 240  
 tgattcgggtg ataatgctgg aggaggatgt ggaagttcca gtctcatctg caaatgaagc 300

tccaaacgat actatgaaga tggacacaga tgatgtgcca agtgatcctg ctgctggatc 360  
 tgatgtgact atgcaggagc agcctnctgc agctggaaat ggagcacaag ataatgagga 420  
 aaagtct 427

<210> 9243  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D11

<400> 9243

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 gaagaagagc aggaggctgc cggctcttga ggagatctcg cgagcagaat agcagatggc 180  
 tgatatagat tagcagcagc atcatcatct ttcgatcgag ctccatgcat atatcgtttg 240  
 agcgagcgcg gacccctctgg acctaactgc agtc 274

<210> 9244  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B4

<400> 9244

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 cataagaatc ggccagctgg ctatcttgctg tgtccctgga gaattcacia caatggctgg 180  
 caggaggcta cgtgatgccg tcaaagctgt acttacaagt gacaacagtg gtgaatttaa 240  
 tacaatcatg gtggtcttgc ggggcctacc aatacatatt cgcaggatat tacaactttt 300  
 gaagaatttt aaatccaaag attccaagga acatcgacct tgtattgccc ccaaaccttg 360  
 aacgcctacc ttcaagaatt ccagaaactt ggtacaacca ttgtggcaaa caaagaagtt 420  
 ccgaccaatt ttcaagcccc 440

<210> 9245  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-A1  
  
 <400> 9245  
  
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 cagggacaag tttatatatc actgcgatcc ttcctactgc atcacgcatg catccaccaa 120  
 cttcttatcc actgtgcatg gattaatcaa ctgctgtcga tacttgtata tacacatcaa 180  
 attttcactc aacacattct acttaa 206

<210> 9246  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-A12  
  
 <400> 9246  
  
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 ccaggagcgt ccgtccgctc tctgacatcc acaaacta tcctttgagc attacatata 180  
 tttttgaact gatttagttg tgcattacca ttttattcaa aattttgtat gccgtcgcaa 240  
 cgcacgggca cttacctagt accttgataa gaccaggaag aggttccttt gggcaagagg 300  
 agaaaatcca acgagaggga aatgcaaagt cgtccaataa acctcgtgcg gcttaggaat 360  
 gcttgattca gaaagatttg ctagagcgtt gtgattacgt tggatgtggc tgcaatgggc 420  
 taaacc 426

<210> 9247  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-A2  
  
 <400> 9247  
  
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ggcggagtgg tttttaggct gtggaggcag cgggtggttg tactgtggtg gtcatttatg 120  
 cgtttgatac atgtgtggct gacgccgtga tggcttcatg ctacatactg ctgtggcata 180  
 tgctacagtg tctgctgctg ctactgtggt ggtggcagaa gctactgcat tggcaaccgt 240  
 ttctactgct actgtaacta 260

<210> 9248  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-A3

<400> 9248

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 tcagtaaagt tccacgctga acttctgaat ttccttggga tagagtgttc tgatatccat 180  
 ggaaaacaga agcaacagaa gcgaactact acattcttta gcttttgcaa ggcagaaaag 240  
 ggcatcttat tgtgcactaa tgtggctgcc cgtggacttg atattcctga cgtggattat 300  
 atcttgcaat atgaccctcc agatgaacca aaggattaca ttcacagagt tggtcgtacc 360  
 gcacgtggtg agaaaagcaa agggaagtgc atntgctgtc ttactaccag aagaactgaa 420  
 gtttctatatt aacctgaaag cggccaagggt taccctg 457

<210> 9249  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A5

<400> 9249

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 gcattgatgt tatggccttg gtggttatca atccaggaaa tccgactggg caggttcttg 180  
 ctgaagacaa ccaatatgat atagtgaat tctgtaaaaa tgagggcctt gttcttctag 240

ctgatgaggt atatcaagag aacatctatg ttgacaacaa gaaatttaac tctttcaaga 300  
agattgcaag atccatggga tacggcgagg atgatctccc tctagtatca tttcagtctg 360  
tctccatagg atactatgga cagtgtggta aaagaagacg ttacatggag aatactggct 420  
tc 422

<210> 9250  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A6

<400> 9250

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caggagacct gctgattgag ggaacagttt tgctgtgtt tggttacatg aattatctgt 120  
ttcacagatg tgtagagcat ggtgtaaattg cttcatgtgc tgttcgtttc gacaaattga 180  
ttatgctgta gcccttcagg tttcatcttg ac 212

<210> 9251  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A7

<400> 9251

cccacgcgtc cgggagaatt agttgagtta cctgagtaca ggcgagaata aatagatcgg 60  
gttgtctcag agaaatgttg taatcattcc taattgtaga gctagagaaa ctctcttttt 120  
tttcgatacc catttcgacg gagttactga tccaaagact ggtcttatgc gttc 174

<210> 9252  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B1

<400> 9252

gaccaacaag caacatagaa agtggaatcc agtagcaaca acagagcaac aatggcgacc 60



aagagattgt cctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 120  
 ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180  
 atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240  
 gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300  
 cagtcattgg tacaaacct cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
 aaccaagtag ctctggcaaa cttttctccc tactctcagc aacaacaatt tcttccattc 420  
 aaccaactgt ctacac 436

<210> 9253  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B10

<400> 9253

gttggcacat cacctttggg atgtcataac ctccatttct ttccataaga taaatgtgac 60  
 cgtccattat attttttatc tggttattag gttcatgttg aaagttgaca tagtgactct 120  
 agcgtggagg atgcggctag ttaagatttg gtagctaggt tgttcgtcca tttgcctatt 180  
 tattatctca gatcagactt ggtgccgttc cagttgtgca ttgtagcctc tttttaccat 240  
 gaaagttagt tcagaagatt cttttatggt gttgc 275

<210> 9254  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B11

<400> 9254

accacgcat ccgcccactc gtccgccac gcgtcctttt tatgagtact tgacaaagtg 60  
 cggaatgctg catctgatta tgaatgaggc cagtggcaca tgatttcgaa cagcgcaaag 120  
 gatcttatat gaaaaatcct atgcctttgt caatcgaaaa aattaaagcc cactttaatt 180  
 ttaaagcttc ctggaatatg aaaatataaa ggctacacca ttaaactctg atcccacatg 240  
 tcttttttgt acccataaat tattttccat taattaattc aagaaatttg ctctaccagt 300

tattgcttaa cattttttat a

321

<210> 9255

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B12

<400> 9255

cggacgcgtg ggcagaagca tccggtcaat ctgctgctgc tcggcctctt caccgtggcc 60  
atcagctttg ccgtcggcat gacatgcgct ttcactagcg gaaaaatcat tttggaggct 120  
gccattctta cagcagtggg ggtgatcagc ttaactgcgt acactttctg ggctgcaaag 180  
aggggtcatg atttcaactt cctcgggtccc ttcctatttg ctgctatcat ggtgctcatg 240  
gtgttttcac taatccagat ctttttcccg ctgggtaaga tatctgtgat gatatacggg 300  
gggttggcat cgcttatctt ctgtggatac atcatctatg acacggacaa tgtcatcaag 360  
cgctacacct acgatgaata catatgggct gctgtttcac tctacctga cgtcatcaac 420  
ctgttcc 427

<210> 9256

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B2

<400> 9256

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aacggtcagt gtagttctat gcatgcatct acaataacag ctgtttaagt tgcacaggcg 120  
cgagacaaat ggggtcgtag cgccatcggt ttgttgctgc gtggcatga tattccatcg 180  
gcgaacatcg acaactctgc cagcacatg agtatttggt ttcaaccttt aatgggtggat 240  
ctgttttttt agaaatgtgt caagagaagt tgaaaatgat gatactgggc accaaaactg 300  
gattggggta taatttgaat accggttatt ccttgaccaa atgttaacaa ccaaagtttt 360  
taagaaactt aaattattta ttccattagc ttgaatcggg caatgggtggg tta 413

<210> 9257

<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H9

<400> 9257

agagcctcat tcattctccat tcgaaacacc ctgcgaccca cactctccct tcggcccagag 60  
cctaaatccc cgcaacgatg gctcgcacga agcagacggc ggcgaagtcc acgggcgaggca 120  
aggccccgag gaagcagctg gcgaccaagg cggcgcgcaa gtcggcccct gcgaccggcg 180  
gcggtgaagaa gccgcaccgc ttccgcccgg gcaccgtggc gctgcgcgag atccgcaagt 240  
accagaagag cacggagctt ctcatccgca agctgccctt ccagcgccctg gtccgcgaga 300  
tcgcgcgagg cttcaagacc gacctccgct tccagtcctc cgcggtcgcc gcgctgcatg 360  
aggccgtcga ggccctacctc gtcggcctgt tcgaggacac caacctc 407

<210> 9258  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G2

<400> 9258

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gtgcgaaaac acagtcgttt aaccctacag gatccaacac gcaatcgcaa caggcatctt 120  
accatcatca cacttgatcc tcaaacaacc gtcagcccta ttacaagaat aacctttagg 180  
tccatttgac agccacaaaa catcactgca catcaactac aacaacttga gctagcaaac 240  
cttgcttgat actctcacca acatcactgt ctcccaatga accaactg 288

<210> 9259  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G4

<400> 9259

caaaaagaca ttggagatca acccatagaa ccctatcatg gatgagctcc gcaagcgtgc 60

cgaggctgac aagaatgaca agtcagtcaa ggatctcgtg atgctgctgt tcgagactgc 120  
tctcctgacc tccggcttca gcctggatga ccccaacacc ttcggcaacc ggatccaccg 180  
catgctcaaa ctccgtctga gcatcgatga ggacgagcct gttgaggcag aagccgagat 240  
gcctcagctt gaggacgacg ctggtgaaag caagatggag gaggtcgact aagtgtcgca 300  
tcgcatgctt gccgtttatc ttatccctag ctaagctacc tgtgatagct taattttcac 360  
tattgttcga gggttttggc acgttatcgg ttgtcctgct ggccaggcta taagtct 417

<210> 9260  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G5

<400> 9260  
caagcggatg ctagagatga tcaagatatt gatggagagt gatctcaacc aaaaagggaa 60  
aaaaaacaca agaggacact aaagacaaac aggcaagagt accataacgc caaccgagct 120  
ctctacagca tgctgaagaa ggagcagcac cagctgacac caccgaagcc atcaaacaaa 180  
tgtgaaaaaa tcatcatgca cgacgaactc ataaacaacc aattgctacg acgcgaaccc 240  
cgatggatca taagaacaag gacgaacaac aacaatgaag accaaccgcg tgcagcacia 300  
cgatgacaag atcaagactc aatgacaaaa gctgccgaac tacaaggact cagcggctag 360  
aagcgcacct gtactgcaaa cacatcgaca ggtgcactct gagcaagatg cggaga 416

<210> 9261  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G7

<400> 9261  
gtatgtggaa ccatttggat cctggaagcg tttgtcacat gtttacacgg caccagggga 60  
gtcggatgac tacgactcca tcgtgacagg ggcgcagtta catgtgagca gccatgggtt 120  
gacgaaggct ctcttccttc gcctccaatt cgccagagtc agcaatgctg cgctcgtcaa 180  
gaatcccagag tgggaagggt caccgaattt ggggcagaaa tctggcctca tctcgacgct 240

tatcagcacg catttctcca tggcagctca gaagcctgtc cctcgacctg ctgatgtgaa 300  
catcaactcg gctgtgtacc ctggcggtcc gtcaacgccca gtgcaggcac caaagctact 360  
caagtatgtg gacacggcag agatggtgcg cggaccacag gacacgccgg gatact 416

<210> 9262  
<211> 386  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-G8

<400> 9262

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ggcgaagccg ccggttggtg gtgacaccat caagccagac ccaaacaat tgccaccgga 120  
atctgacgtg ccacatgact canacaacaa tgctcccggt gctgctgatt atcaggactg 180  
atggatgcta actgggctcc tacctnttct tccccctctg ggatgtcggg catggaaggc 240  
aatgcacgct ccttgggact ngtaagagtt atctgttttg ttgcttcgcg ggcccaaagg 300  
acgcttccct gcaccatctg cctttgtttg gaacggcttg aaccgccgtg gtcctttaac 360  
ctgcagcagg gaaaggaatg gctgga 386

<210> 9263  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-G9

<400> 9263

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gcctccttat gctccttggg ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat 120  
gctcgcaagc tcctatagct tcccttcttc ccccgctacct ctcaccagcg gtgtcttcgg 180  
tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct 240  
tacctttatc acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg 300  
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360

ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattg 416

<210> 9264

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-047-Q1-K1-H1

<400> 9264

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ggcgcccaag gccgagaaga agcccgccgt cgagaagcct gcggaggagg agccggcggc 120

ggagaaggcc acggctggga agaagcccaa ggctgagaag cggctccccg ccggcaagta 180

cgcaggcaag gaggggtggct agaagaagg gaagaagaag gcaaacaagt cgggtggagac 240

gtacaagatc tacatcttgc aggtgctgaa tcaagtgcac ccagacattg gcctctctgc 300

caaggccatg tccatcatga actccttcat caacgacatc ttcgagaagc tggcggcgga 360

ggcgccaat ctggcacggt acaacaagaa gcctaccatt acgtccagcg agatccagac 420

ctg 423

<210> 9265

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H10

<400> 9265

agtaccttta ctttctgaag ttttcaatgg taataagagt cgtgaacaca aacatgaggt 60

ataattgagt tcttgtctga tcttttgagt tgcacttgat cttttgagtt cttgtcttgg 120

ttcgttcttg attcttggac gaggtgggat ttggagagcc aagggcggcg cggcagcagc 180

gggtttctcg gtcggactag attgtttcca tcgagatggg gggcggcgga gggcattcgt 240

cgatggacca ccctggcgcc aaggacctcg agcgcggcga gctgcgccgt ggcgcgcctg 300

agtttgcgga cggcgacgat ggagacgggg aagaaagcca gtacttctcg gacgcggagg 360

accggtcgtg gccgtcgac tcgcgcca 388

<210> 9266  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H11

<400> 9266

ataatgtttg ggctagcaca gccagcggaa acaggaagct ggattctgct taccgtgcgg 60  
 ccagagagaa agaagagcat tgcctatatt tcttggtttt ctcggttaat ggaagtggcc 120  
 aattctgtgg cgtggctgag atgattggac ctgtcgattt tgacagaagt gttaattact 180  
 ggcagcagga taagtggagt ggccagttcc cagtgaagtg gcacataatt aaggatgtac 240  
 cgaacaacct tctgcggcac atcattcttg agaacaatga caataagcct gtcacaaata 300  
 gcaggggacac ccatgaggtg aagctggaac agggcctcca gatgctaacg atcttcaaga 360  
 gccatgaggc tgagacaaca attgtggaag atttcgactt ctatgagcag cgggagaaa 419

<210> 9267  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-047-Q1-K1-H12

<400> 9267

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 taccctcggc acctacaagg gtgatgctgc ncnncnacnc cnagagcctt cacctcaaag 120  
 actacaagta ttgactcgct tctctttgcg acccgttag tttgaaactc ctgcctgcta 180  
 atatgttgct gagtgttggt tgcttgtag agcttttata ttogaacata aaaaaaacat 240  
 gcttcctatg tggatgatgg ttatctttat attcgtatat taacta 286

<210> 9268  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H2

<400> 9268

agccatatcc gaacttatgt ccatcttcct gctcatccgc cttcttatgg agccgggcaa 60  
gccagggatc gccatgtcgg actcggagga gcaccacttc gaatcgaagg ccgactccag 120  
agcgtccaag acctaccctc agaagggtgt caccgtccgt aagaacggct tcatcgtcat 180  
caagaaccgc ccctgcaagg atgtggagggt ttctacctca gatactgtta agcatgggtca 240  
tgccacatgc cactttgttg ccatagatat attcaacggg aaaaagctcg aagatatgga 300  
tccttcgtca cacacctgtg atattccgca tgtgaaccgt actgagtatc atctgattga 360  
tatatcatac gatggatttg ggagccttct tacatcagat ggcaacacta aagatgatct 420  
ta 422

<210> 9269  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-H3  
<400> 9269

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gggctaggct ggtggtgtca tcaaaaagcc aaaccgttct tgcttgtgct ccaagggtcac 120  
caaagaaact gagaagggtg tgtgcatgga gaagggtgtg tatgttgctg agcagtgtaa 180  
gaggccattt gagcatggct tccagtgcgg aagctacaag gttccagcaa actgatgata 240  
tcgcaagagg gaagcgcttg acgtagtctt tagatttcaa ttgttgcagc cgatcaacct 300  
tcttaggggt gtataatatg aagtcaatgt tgagactaat gtgagggtggg agaggcctat 360  
tgatgcatca aaagtattat gagctaataa taaagccttc tccacataaa aaaaaaaaaa 420  
aaaaagaaga a 431

<210> 9270  
<211> 286  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-H5  
<400> 9270

gaactatcta tattatatca ttatcaatgt tatgctaaat aaaaaaaaaa aagaagggaa 60



aaaaaaacca aaatcaatac tatcagaaac aacaatatta taacattcaa ccaactgtct 120  
 acactctacc ctgctgctta ttgcgactaa catctactac cattcagcca gtttagctact 180  
 gcactactct caatatcaac aacttgctgc attcaaccaa ttgaccgcac tgaacccggc 240  
 tgcttatatg caacagcata tactactaac atctattcag ctagct 286

<210> 9271

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H6

<400> 9271

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 ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac 120  
 actgaacctt gctgcttatt tgcagcaaca actattacca ttccagccagc tagctactgc 180  
 ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 240  
 ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc 300  
 cttcttgaca cagcaacagt tgctgccttt ctaccagcag tttgctggcta accccgcaac 360  
 cctcttataa ctacaacaat tgttgccctt tgtccaactt gctttgacag acccagc 417

<210> 9272

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H8

<400> 9272

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 tcgccggcaa gcagctggag gatggccgca ccctagcaga ctacaacatc cagaaggaga 120  
 gcactctcca cctgggtgctc cgctccgcg gtggtcagta agccatgggt catttaagct 180  
 gctgctgtac ctgggtatct gcgtcgtctg gtgccctctg gtgtacctct atatggatgt 240  
 cgtcgtctaa taaacatctg tggctagtgt gtcataaata gtggttgtgg cttcgttggt 300  
 ttaatggacc tgttgtgtcc tctgtgttgt ccccaaaact cttctgcagc agtatggctt 360

gaatccttat gaagtttgat atttgaactt 390

<210> 9273

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G12

<400> 9273

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gacaagaagc cctgagtga cgtattgag atatctggtt gagcatgcaa tccaatatgg 120

acgtggaagg aagggtggact gcttgcggtc cgtggctagt gctgtcttgc gtgaagttta 180

ctgtgtcttc tacgatatat aacgtacttc cgtttgtttc gcttcgtatg tacaatcttc 240

cggttatatg aataataaca tataaaatcg ggttctcacg gtcaaaccgt tcagccaaca 300

ggcctgaacc ctt 313

<210> 9274

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E8

<400> 9274

aaaaaaaaa aacaaacact aaaaattaaa aaaaaaaaaa aaaaaataaa aggataggga 60

aacaaaaaca aaaaaaaaaa aactaaaac aaaaaaaaaa aaaaaaaaaa aaggggtcct 120

ccttttaaat gatccaaact tacctaccga ttctttccaa tctttaacct ttttattggc 180

tcacctaaat taaattcctg cccccctttt taaaagtca caactttgaa aac 233

<210> 9275

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F10

<400> 9275

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ctccgacaat ggatctatct gtagtgaaca ctgcaactgtg cgacatgtca tagtcaaaca 120  
 taacctcgct gtgcgacgaa cgtctgatga agaccgctg ccaagcatcc accaccaacg 180  
 aatggccgta ctgtatcaac gtgctagtgc acctttacat ctatgacctg aacagtgcgc 240  
 gatgcttcag gaagacatta tcataggagg tcatagacac tggttggaaa cta 293

<210> 9276

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F11

<400> 9276

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 ccgcccgcgc tctcgttttc tcatgcatgg gggcggcgta cgggacggcc aagagtggcg 120  
 tcggcgtggc gtccatgggt gtcatgcgcc cagagctcgt catgaagtec atcgtgcccc 180  
 tggtcatggc tgggtgtgctc ggtatctacg gcctcatcat cgccgtcatc atcagcactg 240  
 ggatcaaccc caaggccaag ccatactacc tctttgacgg ctatgccac ctgtcgtccg 300  
 gccttgccctg tggctcttgc gggcttgctg caggcatggc cattggcatc gttgggtgatg 360  
 ctggtgtcag ggcgaacgct cagcagccaa agctgtttgt gggcatgatc ct 412

<210> 9277

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F12

<400> 9277

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 cacagaaaaca gttgtctctt ccagcaaaag ctggacaaac ttcctcagcg ggtactatga 120  
 atgaagcaga tggaactaga aatgcataca acgcaaattg aaaccagtca gcaagatatg 180  
 cagccaacac tcagagcatt cctgcaaacg tcggcatgca atacgacggg agtgcagtgt 240  
 cgcctgaaat ccagtttagt ggttcatccc ttcagagtca gtcttcaaga ggtccaaca 300  
 tgctagcatt gggccctccg catcaacatc aaagtttcga attcccagcg ctcggccagc 360

ccgttcagcc aacaggcctg aaccctttcg aagagtggcc gcagcagcag gagaaccgtg 420  
gc 422

<210> 9278  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-F2

<400> 9278

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taagggctgg acaccactgt caggctatag gctcaacagc gatgcggcga gcgtgttaca 120  
acaaccaatt gcccaattgc aacaacaatc cttggcacat ctaacaattc aaaccatcgc 180  
aacggaacag caacaacagg ttctaacacg gcttagccca ctataccatg gagaaccctg 240  
tcgctaactg gaaacagaat ctgcttgcac ccaacccact tgctatagca aacgtagtgtg 300  
caaaccagca acaacaacaa ctgcaacagt ttctgccagc gcttagtcaa ctagccatgg 360  
tgaaccctgc cgtctaccta caacagcaac aactgctttc atctagcccg ctgctgtgtg 420  
ccaatgcacc tac 433

<210> 9279  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F3

<400> 9279

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cggtaacta tgcaatcgtc atagattgga tacgggatgg caattatcag aaagcagctt 120  
gctatttgcg aaatgctgca tcgaagcgat ccgcataat caatacagac gatataagcg 180  
gataccaaaa gcatgttaat acattcactg atccagctag ctatgattaa catcatctac 240  
cactta 246

<210> 9280  
<211> 423

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-F5  
  
 <400> 9280  
  
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 ctactgcata ctcaagaagg agggcgccgg cggcctgtac cgaggtctcg gccctagctg 180  
 catcaagctc atgcccgcgc ccggcatcgc cttcatgtgc tacgaggcgt gcaagaagat 240  
 cctcgtcgac aaggaggatg aggaggagga ggacgaagcc ggcggcggag aggatgacaa 300  
 gaaaaagggtt gaatgatcaa agttcttggc caagaaggta gcaatgtcgt gaagcgtacg 360  
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 gtt 423

<210> 9281  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-047-Q1-K1-F6  
  
 <400> 9281  
  
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 ctaccggaac acatttgcca acctggcgat cccctcttcc tccatggcgg agcctgtgcc 120  
 acccaagacc atcaagcacc aagacatgtc ctggaccgtg tgggaccgct ggacggtaac 180  
 tggcaacatg acgctgaggg agctcctgga gtggctgaag gagaagggct tgaatgcgta 240  
 cagcatatca tgcgggacct cgatgctgta caactccatg ttcccagagac acaaggagcg 300  
 gctggacaag aaagtgggtg atgtggccag ggaagtggcc aaattggagg tgccttacta 360  
 ccgncgncat ctggacgttg ttgtggcctg tgaggacgac gacgacaatg acgtcg 416

<210> 9282  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F7

<400> 9282

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cttctttcag ttctcgggag ctgctgcaac ttcctgacac tgttctatat tgtctttgtg 180  
gcactgtaca ctgtaccagt tctgtatgag aaatatgagg acaagggtga tgcttttggc 240  
gagaaggcta tgactgaact gaagaagtat tatgccattt tcgatgagaa gtgcctatcg 300  
aagattccaa agggccccct taaggataag aagcactaga ttggtagtaa ggtatttgct 360  
atgaatcaac atctacatta tgtcactagc tgtcacctct ttctctgaag gatggtgctt 420  
g 421

<210> 9283

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F8

<400> 9283

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cacgaacgcg gcggagggcc aggtggcgtc agtcgtcttg ggcttggcga ggtgcgcoga 120  
ctgcacgagg aagaacatga aggctgaggc cggtttcaag ggtcttcagg tggcgatcaa 180  
gtgcaagaac agcaacggcg agtacgagac aaaggccgtg agtgagatcc aaagctccgg 240  
agccttcagc gtcccactcg ccgtcgacct ccacggcgcc gactgccacg cgcagctcca 300  
cagcgccgcc aataacgcgc cttgccctgg gcaggagccg tacaggatcg cgcccatgtc 360  
atgcggcacc ttctgcgcg tgccctggcaa gatgcactac ccgtccgcgg agtgcg 416

<210> 9284

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F9

<400> 9284

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attacctgaa gccgcgcttg acctgagaca acgtcaacaa gagcgcctac caggccgctcg 180  
accgctacat ggagaagtac atcgacacga gctcgccgga ccctctatac cacgtctgca 240  
tcaaaaggat gatctttctc tacttagtca atctgccctg ggagcgcgcc cacctagccc 300  
acctcgagga gatggagacg accggtggga agctctagat ccgttgacct gttcctagcc 360  
ggcagcgcaa tacgacggtt gactctcatg gagtccattc atgctgatgg c 411

<210> 9285

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G1

<400> 9285

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acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtgt cttcagtggtg 180  
tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcatcttaacc 240  
attatcacc cttgttctcc aacaaccgtc agccctatta caagagttac ctttgggtcca 300  
tttgggtggca caaaacatca cggcacatca actacaacaa cttgtgctag caaaccttgc 360  
tgcatactct cagcaacatc agttttcttc attcaaccaa ctggctgcat tgaactctgc 420  
tgcttat 427

<210> 9286

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G11

<400> 9286

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aatcgccctg atacttccgt gctcttatat acatttcgat aatagttttg gttttctgac 180  
atctactgta aggtgacctg ttgctgggtt gttggttatc tgaatattaa ttgtaagagg 240  
ccacttagtc tgttatagct ggtggatcgc ctttttcaaa tatatatttt tttgttttgc 300  
actgaaaaaa aaaaaacaaa caaaaaaaaaa aaaaaccaca aaaaaacaag gaataatcac 360  
aaaaaca 367

<210> 9287

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D11

<400> 9287

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attccacatt gtcacttgc tccaagttcc attattacac agtatgctac atcaggtact 180  
tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240  
agcgtcttac atcatccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300  
catactatcg aaacgcaaca gctacaacaa tttctaccag ctctgagcca cctagccatg 360  
gtgaacactg gcgactactt gcaacagcag atgcttgcac catacccact tgctct 416

<210> 9288

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D12

<400> 9288

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caacaaaaga agaactagag caccttgtga tgctttgcag atctgaggct gatgcaatgg 180  
ggaggatcac tgctggaatt cttcgtctcc ttaaacttga caaatctctt gggcaaggaa 240  
ctatagaaca actacgtaac ctaggaagtg gaggcattga caatatcttt tcaccagga 300



ggctcagcag gcagaacagt ttggttagca taggcactcc tcggactcca actatgcaag 360  
ccattgcaga cgtcatgggt tcgaaaacca cactggaagc aactatttcc tcattacaag 420  
gc 422

<210> 9289

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D2

<400> 9289

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acaagctcct atagcttccc ttcttacacc gtacctctca ccaacggtgt cttcgggtatg 180  
tgaaaaccca attcttcaac cctacatgat ccaacaggca atcgcagctg gcatcttacc 240  
tttatcacc ttgttctccc aacaatcctc agccctatta cagcagttac cttaggtgca 300  
tttattggca caaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
tgtctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctg 419

<210> 9290

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D4

<400> 9290

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gctgttcggc cagccctcgg cgtcgtctgg gccgtcggcc gaccccgcg agaccaggcc 120  
gctaaaggtc ggtgtcgagc tctctggtgg acaagcggcc ggtgggcaca atgtcatctg 180  
cggcatcttt gattacctac aggagcgtgc aaaaggtagc accttgcttg gactcaaggg 240  
acgccctgct gggatcatga agtgcaaata cgtggagctc acttcagact ttgcgtatcc 300  
ctacagaaac cagggcggtat tcgatatgat ctgcagtgga agggacacga ttgatacacc 360  
ggagcagttc aagcaagctg aagacacagc caacaagctt gattcggat 409

<210> 9291  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D5  
  
 <400> 9291  
  
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 ttgcgcatgat ctacgatgg cgccggggcg tgagttggcg tggggggagg agcccgtggc 120  
 gggcgccgg cctaagacca agatcgtctg cacgctcggc ccggcgtcgc gatccgtcga 180  
 gatgatctcg cgctgctgc gcgcggggat gtgcgtcgcg cgcttcaact tctcccatgg 240  
 ctcccacgag taccaccagg agacgctcga caacctgcac gccgccatgg agctcaccgg 300  
 gatcctctgc gccgttatgc tcgacaccaa ggggtccagag attagaactg gatttttgaa 360  
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 cat 423

<210> 9292  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D6  
  
 <400> 9292  
  
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 tacgccaacg aggtgccccaa gaccgaggag aacttccgcg cgctgtgcac gggcgagaag 180  
 ggcgtgggca agtccgggaa gccgctccac tacaagggtt ccaccttcca ccgctcatc 240  
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300  
 atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360  
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 gcg 423

<210> 9293

<211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-D9  
  
 <400> 9293  
  
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 gctgctacat ctgcgggtctc tcctggggcca ctgacgacca ctgcgtccac aacgccttca 180  
 gcacctacgg cgaggtccta gagtacaaga tcctcctcga tcggtagact cagacgtcca 240  
 gcagcttcgg ctttgtcacc ttcttcacgg atgaggcgat gcggaacgcc atcgcaggca 300  
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<210> 9294  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-E10  
  
 <400> 9294  
  
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 cagtcccggt cctgatcaag gccttacagt caggaagcat ggaggccccg agcaacgccg 240  
 ccgccgccat cttcagccta tccgcgctgg acggcaacaa ggcgaggatc ggcgagctcg 300  
 gcgcgatgag gccgctggtg gagctcctcg agcacggcag cacggcagcg aggaaagacg 360  
 cggcctcggc catcttcaac ctgtgcacgc tgcacgagaa caagtcgcgg gccaccaaga 420  
 gcgg 424

<210> 9295  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E12

<400> 9295

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cctcgatcatg ctgctgctgc tgtccgcaga ggtcgggccc gtggcggtgg cggaggcgcg 180  
gacgtgccag tcgcagagcc acaggttccg gggcccctgc ctccgccggt ccaactgcgc 240  
caacgtctgc aggaccgagg ggttccccgg cggcaggtgc cgcggcttcc gccgccgctg 300  
cttctgcacc acgcactgcc actgattcgc tcgccagcg gccggctggc gtcgccgctc 360  
atcgcgctgc gaccagtcca tggctccatg catgaataac aagggtgtgc gcggtttgtg 420  
ttgt 424

<210> 9296

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E4

<400> 9296

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tcaccagggt caaggcaata tctgtgttaa tcttggggac cttcagtaga ttgctgagag 180  
ttctccttga tacaggggaa taaagatcca aataagtttt tgacattgat ctgtagccag 240  
tactgcaatg gctacgaagc ttgtggttct cggtatcccc tgggatgttg aactgaagg 300  
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<210> 9297

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E5

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ttcctcggag gtagcgggga tcgccactca actgcctcgt tggggtcagg ctctgattcg 120  
gaccccgcca agcgggtcca cgttgcgctt accgctacgg acgcactgta cagtcagtgg 180  
cagtcgcgga taatgcacta ctgctataag gagatgaggg accgacctgt ttccgacatg 240  
ggtggattca ctaggatcct tgactctggc aagcctgatg gattgatgga tgagataccc 300  
accatgggtg gtgatccctt tcctgaacgc aaggatcaag gatataattgt cttaaataagg 360  
ccttggggctt ttgtccagtg gatccagagc gcaaagatcg cagaagagtc tatatttatg 420  
gc 422

<210> 9298  
<211> 482  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tcttcgatct gtcctcgcct tatttcggca aaccatgttc gtctgcccga gggagtatct 180  
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tggatctcac ataagggacc agtcaactta aaggatgcct gtgcgcgtcat tgcacggaac 360  
taggaagtct cnttccgtat tattgaatgg aaccccaact gctnnngcat cgcttggccc 420  
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gg 482

<210> 9299  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-B5  
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 cccaattctt caaccctaca ggatccaaca ggcaatcgca gctggcatct tacctttatc 240  
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 ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360  
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<210> 9300

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B6

<400> 9300

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 tggatacgcg ttcattaaca tgatatcgcc ggtgcatatt atatccttct accaggcttt 180  
 taatggtaag aaatgggaaa agttcaacag cgagaaggta gcctcgttgg cttatgctag 240  
 aattcaagga cggctctgcac tgatatcaca ttttcaaaat tcaagtttga tgaatgagga 300  
 taagagggtc cgccccattc tttttaatcc caatggtcag gagtctgtgc accaggaagc 360  
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 agat 424

<210> 9301

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B7

<400> 9301

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attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 180  
attcagccag ctagctgatg tgagccctgt tgccttcttg acacaacaac agttgttgcc 240  
gttctacctg cacgctgcgc ctaacgctgg caccctctta caactgcaac aattgctgcc 300  
attcaaccaa cttgctttga caaacccaac aacgttctac caacaacca tcattggcgg 360  
tgccctcttt tagattgctt atgagttata gctcaataat gaagatttcc ggatgatgta 420  
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<210> 9302

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B9

<400> 9302

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tatgtttgaa gagctcctgc catatacacc tggcacaatg gagatgccct atgatgttct 180  
tgtggagaaa actgaagggt attctggctc tgatattcgc ctggtatgca aggaagcatc 240  
aatgcagccc ctaagacggg taatggcagt tcttgaaggc aggaaagaag aggtccctga 300  
gggtgagttg cctgaagttg gccagtaac tacagaagat attgaacttg ctttgaggaa 360  
tacaagaccg tttgcacatc ttcatgcaca tagatacgaa aagttcaacc a 411

<210> 9303

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C1

<400> 9303

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atgagcatac cgtcaggact tctgacgcac acatgctctt ctacgtgcag aagacgttct 180  
actacaaagc ttgcgaaaga gcagccacag tctgatctga agcagacatt gatgacacaa 240

cttcagacca ccataaattt atttgtcacc gaatcagata cacatgtagt aagtagttcg 300  
tcaatcaaga agggaaacgg gcgcctgatt cacagcagca taagcatggc ctgttaaata 360  
ttttcgttgt aactgacct atagttccaa tcagagagaa gctttttcgg cggattttgt 420  
cttta 425

<210> 9304  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ggntgcgggc gccatcgcg cggcgctcat ggcgccggg ttcgtcacct ccggcggcct 360  
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<210> 9305  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-C11  
<400> 9305

ccggtccag tgtgtccgt actccgctcc cctcagtc tcagttctc acgtagcgg 60  
agcgtgcgc cgggagacgt agatggcggc ttcggaggcg gcagcggcgg cggcaacacc 120  
ggtgacccg acagagggga cggatgatgc gatccacagc ctggaggagt ggagcatcca 180  
gatcaggag gccaacagcg ccaagaagct ggtggtgatt gacttcactg caacatggtg 240  
tcctccgtgc cgcgcatgg ctccaatttt tgctgatatg gccaagaagt ccccaaatgt 300



tgttttcctg aaagttgatg tggatgaaat gaagaccatt gctgagcaat tcagcgtaga 360  
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<210> 9306

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C12

<400> 9306

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ccgttggatt tcaccactaa ctgtggttaag atcaggttct actgctggga taccgcaggg 120  
caagagaagt ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc 180  
atgtttgatg taacctcaag gcttacttac aagaatgttc ctacgtggca tagggacctg 240  
tgcagggctc gtgaaaacat cccattgtc ctctgcggtg ataaggttga tgtgaagaac 300  
aggcaggtca aagccaagca ggttactttc cacaggaaga agaactctgca gtactatgaa 360  
atttctgccca agagcaacta caactttgag aaacctttcc tgtacctcgc aaggaagctg 420

<210> 9307

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-047-Q1-K1-C3

<400> 9307

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ctgttcaacc ctgctcgatt agtccacaaa gtggctaata gcttggccga caacgtcggg 120  
tccaaacagc ttcaggacat tcgccggggc ctcaagggcg actcgggtgg gctcatgggg 180  
aagaacacgc tcattaggcg ttggatcaaa gtgtacgccg agaagaccgg taaccacacc 240  
tttgacccgc tcatggacct tctg 264

<210> 9308

<211> 251

<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-C5  
 <400> 9308  
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 cagtcaaccg cgctccccgg cccccagtggt ctcgtagaac attcgagaac ccctcgectc 120  
 ctcccccaac gataaaatcc tcaccgcgcc gcaacgcatg ttcgccccac aaaccctcgt 180  
 ctcgtgccac tttctcagtc ccctctagcc ggcgcctacc gtcgcgcgtc tcctcgcggtt 240  
 cgggaagggtc g 251

<210> 9309  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-C6  
 <400> 9309  
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 ttgttactta catattatca ttttcttttt ccccaaaaaa ttcttactag aataactaaga 120  
 ccatttctac acagcaatca cataaagttg gatccatcat caacaatgat ttacaaaact 180  
 ctcttgaatc acctgcaaag gttcttatta tacatctgca attgaattat ctaaaattaa 240  
 aacatagaat tcaattatgt tcgttgttta cagggtgaaa caacaacttt tgaagactgg 300  
 ccatgaatat ctagatagta ctacaccatc tacataattt gtaatcaata taatttgcac 360  
 attattcatc ggacaccttt ataaccatag cacatcatga cagtagctca caggctc 417

<210> 9310  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-047-Q1-K1-C7  
 <400> 9310  
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 cagccgccgc cgcaccgtca ccgcgcgacc tcccttcttc gccgcaaacc gctctgggcg 120

cttgaagatg gcggtgccgc tgttgactca gaagatcgtg aagaagcggg tcaagcagtt 180  
 caagaggccc cacctcgacc gctacaagtg cctcaagcca agctggcgca ggcccaaggg 240  
 tatcgactcc cgtgtcaggc ggaagttcaa gggatgcacc ttgatgccta acattggata 300  
 tggctctgac aagaagacca agcactacct ccccaacaag gttaagaagt ttgtcgtgca 360  
 caatgtttct gagctggagt tgcttatgat gcacaacagg acatactgcg ctgaaatcgc 420  
 acac 424

<210> 9311  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-C8

<400> 9311

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 tcacaattga tccacaacgt gattcacctg ctcagcttaa ggcatacctt actgagtttg 180  
 acccaagaat agtaggacta acagggtccca tcagtgcagt aagacagata gctcaggagt 240  
 accgtgtttt ctttaaaaga gtagaggaag ttggtcagga ctatcttata gaaagctctc 300  
 acaatatgta cttgctagat ccatgcttgg agacagtaag gtgctttgga agtgagtacg 360  
 aggcacacga ccttgctgag gctataacaa cagaggttca gaaagcatct gcctcatcaa 420  
 caa 423

<210> 9312  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B3

<400> 9312

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 tgaacaaagg tgttgtagag ttgggtgcag accatgtagt ttgtgaggaa ggaaagcccc 180

tttcgccaga agcagcgcag actctgcggc tgcttgggat acaaattggcg acattccgtc 240  
tataccttgt gtgtcgtgg tcgggcgatg actttgaagt ttacaaagaa agcttgatgc 300  
acctaagaac tgatgaatcc tcttaagctt ttgtttcctg tatacacaaa aggctcactt 360  
gctgtctttg ctgggacagc ttttggtaac tgtgcgtgtg gccatgtacc caggagtatt 420  
ggaagtt 427

<210> 9313  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A1

<400> 9313

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tgatggctta agtgatcacc ttagtgttct tgctgattca ttaaataaag caaggattca 120  
tatctgtcca ccagtgaaaa agccatctaa actcggtgaa agtctcatta gtttggtgc 180  
aatagtggag aatgaacata agaggctgct tgcaaggaag tccatcattg aaaaacgtaa 240  
agaagagctt gagcgtcaaa tattggagaa ggaaaaagaa gaagaaaaaa agagaatgag 300  
cagtcaaaag aaaactgcgg atgaagaaag ggtgaagctt ctcaatgaac agaggcagag 360  
ggagcaggac cggattcgta gagagataga ggaaaaaaat aaagcagaag caaaaaagtt 420  
gctagaagat ttga 434

<210> 9314  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A10

<400> 9314

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atattttgcc tccttatgct ccttggtatt tctgcaagt ctgctacggc gaccattttc 120  
ccgcaatgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc accagcggtg 180  
tcttcggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagct 240

ggcatcttac ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta 300  
 cctttggtgc atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta 360  
 gcaaaccttg ctgectactc tcagcaacag cagtttcttc cattcaacca actagctg 418

<210> 9315

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A11

<400> 9315

ctcttacaac tacaacaatt gttgcccttt gtccaacttg ctttgacaga cccagcgggc 60  
 tcctaccaac aacacatcat tgggtggtgcc ctctttttaga ttgcttatta gttgtaattc 120  
 aataataaag ttttttggat gatgtatgtg gcccaaccaga aataagaagt tacatttcca 180  
 g 181

<210> 9316

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A12

<400> 9316

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 cctcaatgct cacaagetcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360  
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattc 417

<210> 9317

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A3

<400> 9317

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ggttggaag gaggtaacca atttcgttac aaacgggaaa gtatagcgct ataccgcaa 120  
agcccttctt gcgcttcaag aagcaacaga attccacttg atagaactgg ttgaaatggc 180  
gaatctgggt gccattcatg ccagcgtgtc acaattatgc aaaag 225

<210> 9318

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A4

<400> 9318

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agctgaaatg gctcctaaag ctgctcctgc caagaagggt gatgccaaga cccatgcctt 120  
gaagggtgcc aaggctgtga agtctggggc agccaagaag aagaccaaga agatccgcac 180  
gtctgtgaca tttcaccgcc ccacgacct gaagaaggct agggacccca agtaccacg 240  
aatcagcact accggaagga acaagcttga tcagtaccaa attctcaagt acccccttac 300  
cacagaatca gcgatgaaga agattgaaga tcacaacact ctggtcttca ttgttgacct 360  
caaggcagac aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca t 411

<210> 9319

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A5

<400> 9319

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gatgactacg ttcagaggga gcgccatat gatggttatc ttgacaggag tcggcgctcg 120  
tcaggatctc ctctgggtaa ctggggaaat gatctgcgtg acagaagccg ctctcctgca 180  
cggaacaggc ctatgaagag ttccttcacc ggaagaggtc gacctgacga ctatgctgct 240

gatccatatg gcagccgagg gagacccaat ggtatggagg ccggccgtgg gcgtgggcat 300  
gcttacagag caagcagtgg tccgtaccct ggtgagactc gaggtgacca acgcgctgct 360  
ccacgcgcta ggaacgagga tggctattag atcttcatga agctgagtga cgtcattttg 420  
tcttt 425

<210> 9320  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-A6  
<400> 9320

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tatgctgctg gtggtgagct atttgaaagg atctgtaatg ctggaagatt tagtgaggat 120  
gagggcagat ttttcttcca acaactgatt tcaggagtta gttattgccca ctcaatgcaa 180  
atatgccata gagatttgaa actagaaaac actctcctgg atgatagtat agcacctcgg 240  
ctaaagatat gtgattttgg ttactccaag tcctctgtgc tgcactctca accaaaatca 300  
actgtcggga caccagctta cattgtcctt gaggtccttg ctagaaagga atatgatgga 360  
aaggtcgccg atgtttgggc atgtggagtt actctgtatg tgatgc 406

<210> 9321  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-047-Q1-K1-A7  
<400> 9321

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accaccacgt gctcctcgt cgacgatctc gtagcggcgg cgcacatggc gagcgacggc 120  
gcggcggcta cgccagcgaa ggttacccca aagaaggcca atctcctcga cccgcactcc 180  
atcaagcacc ttctcgacga gaccatctcc gaagtcgtga agagtaaggg ctacaccgag 240  
gacacgcggc tgggcaactg gaagctgggg atcggagcct gcgtgattgc tgtcgccctc 300  
ctcgctcagt ttaccccaa gaagttgccg cagaaccgag atttctcctt tggctgcata 360

gccctgtatg tgggtgctgaa tgtggtgctg ctgatacctta gctacaccaa ggagaaggat 420  
gccatc 426

<210> 9322  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-047-Q1-K1-B1

<400> 9322

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tgccagacac cancgtttca tctaccgtct negttctata tgccgcctac gttctatctg 180  
ccgccgcagc agcagccgca gccatggcaa taccctactc aaccaccgca gctaagccccg 240  
tgccagcagt tcggatcctg cggcgctggc agcgctggca gcccgcttct gggccagtgc 300  
gtcgagtcc tgaggcacca gtgcagcccg gggcgacgc cctacggctc gccacagtgc 360  
caggcgctgc aacagcagtg ctgccaccag atcaagcaag tggagccgct gcaccggtac 420  
caggcgacat a 431

<210> 9323  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B10

<400> 9323

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ccttgggtatt aagcctcttt ttggaccatc tgtcattaaa ggcctaattg gactttcaag 120  
gatctgaact agtcaggaag atggaccatt gcttatgctt atgctttgca tgatgaatct 180  
tgccgacttc aagctatcat cgagcatgta ctcatctgt aaaaaatcgt acatgatact 240  
ctttgtaatc ataataagca ccatctggtg caatctacac tagctgtagc tctgaataaa 300  
gaattccttt gcatgttaaa tatgacagaa tcagaaccaa tagcaagcac atgtgtatgc 360  
caatccaata taacagtcgt gcttctctta tgcctta 397



<210> 9324  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B11

<400> 9324

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 gttctaccag cagtttgtgg ctaaccctgc aaccctttta caactgcaac agttgctgcc 180  
 ctttgtccaa cttgctttga caaaccctgc agccttctac caacaacaca tcattggcgg 240  
 tgccctcttt tagattgctt attagttgtc attcaataat gaagtttttt ggctgatgta 300  
 tgtggcctcc tagaaataag aagttatatt tccaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa aaaataaaaa aataaagatc atagctaaga tgaagttgaa caaaaa 416

<210> 9325  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-B12

<400> 9325

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 ccatatcagt cgttgctccc atctgctacg cacatctggc agctgctcag gttggccagt 180  
 tcataaagtt cgatgagatg tcggagacgt cctccagtca tggcgggcat acttcggcgg 240  
 gcagcgttcc ggtccaggag ctgccgcgcc tgcattgagaa agtgaggagc tcgatgttct 300  
 tttgctgagc cgtggtttta cttttttggt ggatggtgaa cccctctagt tatgtcggta 360  
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 at 422

<210> 9326  
 <211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-B2  
  
 <400> 9326  
  
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 gagtcctcag ttcctcacct agcggtagcg tgcgcgcggg agacgtagat ggcggcttcg 120  
 gaggcggcag cggcggcggc aacaccggtg acgccgacag aggggacggt gatcgcgatc 180  
 cacagcctgg aggagtggag catccagatc gaggaggcca acagcgccaa gaagctgggtg 240  
 gtgattgact tcaactgcaac atgggtgtcct ccgtgccgcg ccatggctcc aatttttgcct 300  
 gatatggcca agaagtcccc aaatgttggtt ttcctgaaag ttgatgtcga tgaaatgaag 360  
 accattgctg agcaattcag cgtagaggcc atgccaacat tcctgttcat gagggagggc 420  
 gacgtcaa 428

<210> 9327  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-G12  
  
 <400> 9327  
  
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 caagctccta tagcttcctt ttttccccca tacctctcac cagcgggtgc ttcaatgtgt 180  
 gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg catcttacca 240  
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 ttggtggcac aaaac 315

<210> 9328  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-G2  
  
 <400> 9328

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gatttgcccg aacttccggt aaaggtactt gatacatggt gggaatgagg ggagtagcag 120  
cacgtccact ttcactctca caataacgct gcccgaggcg agccatgatt taattagaaa 180  
cttattgtca aaggaagttt gtttattttt ttatatggtc gtgcgcactg gttaattcag 240  
ttcaggtcgt atgtttatct ttccttgcta gccgagtaat aatacttagt atgttttagt 300  
catgatatat gtttatactc tgttgctccc tcttttatgc aatcttgcaa aggggatgct 360  
gccgaaattt tatatatgga cgtcggaagt gtagtacagt agcaaaaaat aaaaataggg 420  
aaaa 424

<210> 9329  
<211> 397  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-046-Q1-K1-G3

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atgatacatg tatatggaaa tggcgaggac tctgaagctg tccagaacgc tgctaggaaa 180  
tttgatttga acatcaattt tttcaagggga aaggaccatg cagatgattc actccatggg 240  
tacaaggttt tcgtcaatcc aagtgttagt gatgtgctat gcacagcaac agctgaggcc 300  
cttgcaatgg ggaaatttgt agtctgtgca gatcatccat canacgattt ttttaagtca 360  
ttccctaact gcttaacata tagaacttca taggaat 397

<210> 9330  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G6

<400> 9330

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 aatgaccatt ttacttcaat cccgttttct tcagttctgt gtttgttctg actaacgatt 240  
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 acgaaaagca caagtctcga tctgaaagc ctcaccgcca atctaatac accgaactgg 360  
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 ag 422

<210> 9331  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-G7  
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 gtttgaggag gaattattgc tgctgcctct tactgcctag aactttatgt tatgatgttt 240  
 aaccacatgg atcccggtg cacagtgcta taatatgttg ctgttaaaac tatgtgtcga 300  
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<210> 9332  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-G9  
 <400> 9332

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 cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
 cgaggctctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240

cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaggga tgaacggcaa 300  
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360  
 cggcggcggt ggggtacggtg gtggccgtgg aggcggcggc tacggcggtg gcgggc 416

<210> 9333

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H12

<400> 9333

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 cttctccttc ggccgtgccc tccaggcgag taccctcaaa gcctgggctg gcaagggtga 120  
 gaacgtggag aaggctagag cggccttcct cgccagggtgc aaggccaact ccgaggctac 180  
 cctcggcacc tacaaggggtg atgctgccgt cgacaccgag agccttcacg tcaaggacta 240  
 caagtattga gttgcttctc tttgcgatcc cggtgttttg aaactcctgc ctgcgagtag 300  
 gttgctgagt gttgtttgct tgtagagct tttatatctg aacataaaaa aaacatgctt 360  
 cctatgtgga tgatggttat ctttatattc gtatattaac tactagtctc tgggtgtt 417

<210> 9334

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H2

<400> 9334

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 ggttttcccc gtacagtaaa acaagcggaa tattaactta atttgcgga aattcttgat 120  
 ggcgttacag acattgatat ggtgggtaat ctgaaactaa gagaagatgt tatagtagag 180  
 aagtgccttg gcagaaggat ttgcggccaa tgtggaaaga acttcaattt ggccctgcatt 240  
 gatgttaagg gtgaaaatgg actcccacca atctacatgg caccactgtt gccccaaac 300  
 aactgcatgt cgaagcttat taccgagct gatgataccg aagagggtgt cagaaatcgg 360  
 cttcagatat ataatgacat gagtaaacct gtggaagggt tctaccg 407

<210> 9335  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-H4  
  
 <400> 9335

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 ttcaaaaaaa ttccgtcagc agttgaagtt atacccatgg caaaactact cttgggtttg 120  
 ctcccttgccc ttgctattct agggacaaca tcggctgctg gttgtgtaca agacgcggaa 180  
 gacatgaaac gagagtgcaa gcagtttgag ctattcccag cgaacccaaa gttgccaccg 240  
 tcggcagcat gttgtgctgt gtggaagacg gcagatgttc catgcctatg caaatatgtt 300  
 aacaaggaag tagagaaagt atggtgcatg gaaaaagttg tgtacgtcgc caactattgt 360  
 aagaggccgt ttcaacctga ctacaaatgc gggagttata cagttcctct tagtatgtaa 420  
 aaagactggg tgggacatgt 440

<210> 9336  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-046-Q1-K1-H6  
  
 <400> 9336

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 taactttgtt gtgcctcagt ttatgcagta tgacattggt tatgtgcaat ctccctggcat 120  
 gtccacaaac cagcatacta tgtactttgg ccagcctgat ctaacaatag ggtcttcttg 180  
 agctgctgtt tatcgacatt ggccaacccc aacaatgatg tatccccatt gctatgataa 240  
 tgttagtcca atgatgtctc aggttcctct gtaccagtct ttcaaccatg attaggagat 300  
 tctgcttgct ggaaagttgg gaacaattct ctgttgaaact tgctatgttg tgttgtccta 360  
 tgtaagtgg agttccttta gattcgagcc gtttt 395

<210> 9337  
 <211> 209  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H8

<400> 9337

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gctgctgggt gtgtacaaga cgcttaatac atgaaacgag agtgcaagcc agttgagcta 120  
ttcccagcta acccaaagtt gccaccgtcg gcagcatgtt gtgctgtgta gaataggtca 180  
taagttccat gcctatgcaa atatgttaa 209

<210> 9338

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G11

<400> 9338

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tacagcagag aaccacttca cagcaagttt cggcttcgag aaaccttcca gaggccgatac 120  
cttagttctg aacctcaaat tactgaacat cgaatacagc cgaacgatca atttgttata 180  
tttgcttctg atgggtctatg ggagcacctc agcaataagg aagcagttga ccttgtccaa 240  
agtagtcccc gaaatggaat cgctcggagg ctagtgaag cgcgatgca agaagctgcc 300  
aagaagaggg agatgagata ctacagacctc aagaagatcg accgtagtgt gagaaggcat 360  
ttccacgacg atataactgt cgctcgtggta ttactcgatt cggatgccat ga 412

<210> 9339

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E6

<400> 9339

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gacagactgg aatgacgtca tcgcgattgt actgagaaga gcttcctagc gtgcccagac 120  
taagtgcagg cacatctgtt cgtccacgca gtgatagcct tgccctccaa tctatatata 180

ctctatcacg tgggtcaaaag agcagtgtgtg attcgctaaa ctaatctgac gactctgccc 240  
 atcatgatac ttgacgtgac tcctaaccgt ctogagacgt acactgttga ggcgctaadc 300  
 gcgagctgac aggtcgctca gagagggttg ctgacgtca ggtacgatga gcata 355

<210> 9340  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E7

<400> 9340

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 tgatgaagca tatgaagatg gaagaaatcg gcttgaagct ttgttatcaa gattacattg 120  
 cctcaatgtc ccaacacttt cttctggttc tataaaactc aatgttgaaa actttggccc 180  
 agtaatgcaa aaatcaacga tgtcaagcga agaataaaa aatatcgttg tccaagctaa 240  
 agaacacatc ttggccggtg acattttcca agttgtttta agccagcgtt ttgagagacg 300  
 gacattcgcc gacccttttg aaatctatcg tgcattgcgc atcgtaaadc ctagtccata 360  
 tatggcctat ctacaggcac gaggttgtat tctcg 395

<210> 9341  
 <211> 84  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E8

<400> 9341

cgcacgcgtg cgtgaacgcg atcgttcaca cattcgacg accgactgtt gtagtgggtc 60  
 agtttaagta tactatatta caca 84

<210> 9342  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F1

<400> 9342



cagtcatcca cactaacgaa cgaactcttg ctccgatcac gagctagctg aggtcgacga 60  
 tggcggtgt gctgaacagc aggaagacgc cgcaggtggt ggccgtgctg gtggtggtgg 120  
 cgctgctggc ttctgccg cgccggcgga tcacctgcgg gcaggtgggg tcgtcgctgg 180  
 cgccgtgcat cccgtacg cgccggaggg ccagcgcgct ccccgcgctg tgctgcagcg 240  
 gcgtaagag cctcaacagc gggcgcgga ccagcgcgga ccgccaggcg gcggtccgct 300  
 gcctcaagag cctcgccaac agcgtcaaga gcgtaacat gggcacgct gccaccatcc 360  
 ccggcaagtg cggcgctctc gtc 383

<210> 9343  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-F11  
 <400> 9343

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 ctctgacact gccactacct ctaatgacca atccaaggcg gaagattcca gtgtcacaaa 120  
 gaagcgcgct gcaagctttt ggtttgatga ggatgggttg tttaacaacg atgatgaagg 180  
 gagggcggaagg aggcagcagt gtgctattgc agcctccaat ataatccgca atttctcttt 240  
 tatgccagaa aatgagatta tcatggttca acataggcat tgcttgga aa ctatatattca 300  
 ttgcttagaa aaccagaata gaggtaaata ttgaaatatt gtctgcgctc tttgtttttt 360  
 tagtttatag attaacttgg tgatgggtcaa atgaggctat gtgaatgtgt ttggcacttc 420

<210> 9344  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-F12  
 <400> 9344

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 caagctccta tagcttcctt tcttgcccca taccttccat caatgatagc ttcaatatgt 120  
 gaaaaccag ctcttcagcc ctataggctc caacaagcaa tcgcaacaag catcatacct 180

ttatcaccct tgttggtgca acaatcgtac agccctatct atgggtgcaga cattgagtag 240  
 ataccatcaa ggcacaggac ctgcaatacc tegtgtctacc tgtgatcaac caagtagctc 300  
 tggcacacgc ttgtgcctac tctgagctac atcaatgcat tgcattcaac ctactgtcta 360  
 cactgaaccc tactgctaac ggcgagcaac aactattacc attca 405

<210> 9345

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F2

<400> 9345

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 gcttagtcaa ctagccatgg tgaaccctgc cgctaccta caacagcaac aactgctttc 120  
 atctagcccg ctgcgtgtgg ccaatgcacc tacatacctg caacaagaat tgttgcaaca 180  
 gattgtacca gctctaactc agctagctgt ggcaaaccct gttgcctact tgcaacagct 240  
 gcttccattc aaccaactaa ctatgtcgaa ctctgttgcg tacctacaac agcgacaaca 300  
 gttacttaat ccattggcag tggctaaccc attggctgct gccttctac agcagcaaca 360  
 attgctgcca tacaaccggg ttctcttgat g 391

<210> 9346

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F3

<400> 9346

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 tggccgactg ggacggcggg tacgcgcgca aggtgcgctc cagcgacgag gactacggcg 120  
 gctgggtgggt cagcgagccc gacgtcgacc gcaaggcctc cgacttcac aacaacttcc 180  
 accagaagaa ttgaagggtc gcgttctctg ctagctgcga ctgctaccgc ttccccacgc 240  
 cagcatagca tgcaatatgc atatatatgg tcgacgacga cgatggcaca cggccggcag 300  
 caccaccgcc cgccgccgcg ccggtccacg ctatgcatgc atgcagctac gtttcattta 360

ttaccagggtt ctttgatatt tctatatata t 391

<210> 9347  
<211> 392  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-F4  
  
<400> 9347

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acaattgctg ccattcaacc aacttgcttt gacaaacca gcagcgttct accaacaacc 120  
catcattggt ggtgccctct tttagatttc ttatgagtta tagttcaata ataaagtttt 180  
ttgtctgatg tttgtggctt cccagaaata agaaagtaca tttctagatt ctaaaaaaaaa 240  
caaaataaca tgcaatatgc atatatatag acaacaacaa caatggcaca acggacgaca 300  
acaccaccga ccgacgacga gccggtccac gctatgcatg catgcaacta cgtaacatat 360  
attaccagggt tctaagatat tcttatatat at 392

<210> 9348  
<211> 394  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-F5  
  
<400> 9348

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ggacagctgc tttaggcttt gcacaatacg tcccaaataa aaatcttttg atgacaaaag 120  
agcagctttt tgatatgaca tgcattgacat taggtggccg tgctgcagag gaggttttga 180  
ttggcaaaat ctcaactggt gctcagaatg acctggagaa agttacaaaa atgacatatg 240  
cacaggtcgc cgtgtatggt tttagtgaag aggttgggct tctgtccttc cccagaaaag 300  
atggtggttt cgaattgagc aagccttaca gtaatcagac agcatccatc atcgacgatg 360  
agggtccgga atggtttggc aaggcctaca agaa 394

<210> 9349  
<211> 433  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F6

<400> 9349

cggacgcgtg ggcgagcaaa ccctatcgag cgagagagcc cggagccgag agaccggcca 60

gccatggcgc tgcgtgccct gtacaacgag atccggagca tgaaggcccg cgacgtgccg 120

gcttacctga agccgcgctt gacctgagac aacgtcaaga agagcgccga ccaggccgtc 180

gaccgctaca tcgagaagta catcgacacg agctcgccgg accctctcta ccacgtctgc 240

atcggaggga tgatcttctc ctacttcgtc aatctgccct gggagcgcg cccactcgcc 300

cacctcgagg agatggagag gaccgggtggg aagcactaga tccgctgacc cgtccctcgc 360

cggcagcgcg gtaggacggg tgactctcat ggggtccatt caagctgatg gcttctggta 420

tcttctgctg gtg 433

<210> 9350

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F7

<400> 9350

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gaattcgagc tcaagatatg ctatcattat tacatattct taatttgcta atactttcat 120

tttggttatat aaaattcatt gacgaacact ttaaccatt aatccataag tttttcatgt 180

ttaccgacta ctataaacat tattgggttac catctaacaa tcaccttttg gccattaca 240

tttacaagc tgttttaatc caaccttacg aaagacggtc attcaacgac ccctctgaaa 300

tctatcactc atttt 315

<210> 9351

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F8

<400> 9351

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 cgcgctcttct acgtcgcggtt gctgtgcacc gaggagcaaa gcgtgcagcg cccgacgatg 120  
 agggaggtgg tgcagatcct gagegagctt ccaaaaccgc catctaccaa gcagggagag 180  
 gagaattcta ccaagcaagg agaggaggtt ccgaattccg gcgacggctc tgcgcccagc 240  
 cctctacact cagcaccagt tgggaccaac gaagcaccag ccgtcgaagc gagagaccac 300  
 cagcagcaga caagctctcc gtcgtcgcca ccgcctccag atctcatcag catctgagta 360  
 accggaatcg aaaacgttac cgttcctcgc aaaaatcccc gcttcagtgt a 411

<210> 9352

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E5

<400> 9352

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 ggacaactgc tccacaacgg ctgcctggg atccaggaag tgggcgcctc gcttcgacta 120  
 catcctgacg cagcaggcct tcgtggcggg ggacaaggac gccccgatca accaggacct 180  
 catcagcaac ttcttgctcg accctgtcca tgggtgccatt gaggtctgcg ccgagctgaa 240  
 gcccacccgc gacatctctg tgcctgcca cgccgacttt gtgcgcccgg agtccggca 300  
 gtcttcctag attgaggcag tgagcggaga gggagagggg gagagaaaga gaggatttcg 360  
 tgt 363

<210> 9353

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G1

<400> 9353

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 tagggaggcg cccaagcggg actcgagtga ggggcagtaa agccggcttt atgtgcctag 180

aaactagtag ctagtgtttg ctgctgtcga atgacactat gcaatgtgat ctggaacctg 240  
 gtttcttggg tgcgacgctt gtagccgtgt tatgactgtc gtccgtaaaa tttgggggct 300  
 ccccgtaagg gatgctgcct ggcaaggcct cgggtgtcca ccctgtctgt ggcgttgggc 360  
 gcttgaaccc cggtc 375

<210> 9354  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-D12  
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 cagtggatga cctgccatat actgtacaat aggggaacaag atcaaacgat gatcgcgtaa 180  
 caggtctact agacgagaaa cttcacaatg aggtaagatt ctatgaccac atgcagcgtc 240  
 aaattttaaa gcgcaggctc aagttattac atactattca tgttgaatcc agtgatttgc 300  
 atcttgagat tcactatgcc tttcatgatg aacctcatat actactagct tagatagtca 360  
 tgacgatagc taggactatt atagtgaagg cctgcaatca cactgatcat tgctagat 418

<210> 9355  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-046-Q1-K1-D2  
 <400> 9355

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 tagagggagg tgtgtttcag gcgggtgaaa attcaagttg tacagttgaa ctcaccagga 180  
 ttggaaaatg gtcacaaatt caaatttgag ttgtttttct t 221

<210> 9356  
 <211> 373  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D3

<400> 9356

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cttttgcagg ggaaggggggt ctgggttgcg tacaggcgaa aggcacgcg cgccgctgcc 120  
gcgcgagcct ctccgtcccc atcgccgcg agatggatcc gtcgtcggag ccctgtacg 180  
cgcaggtcga gccgtacgac tccgggttcc tcaaggtctc cgatgtccac accatctact 240  
acgagcagtc cgggaacctg cagggccatg cggccgtggt tctccacggc ggtcccgag 300  
ccggcacgtc gcccggaac aggaggttct ttgaccgca gttctacagg atcgttctgt 360  
ttgaccagag ggg 373

<210> 9357

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D4

<400> 9357

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gatggctaag atcgccgcg cgccggcggc ggcgctgtgc ttccggggcc tgggtggccgt 120  
ggccgtcatg ccaaggcgag gtctagcggc acagggtcat ggacctgcag tgctggcagg 180  
agggtccagga gagccgctc gacgctgcc gccaggctct cgaccggcag ctaaccggcg 240  
gtggcagcag cggcggcggt ggcccggtcc ggcggggcac cgggctccgg atgcgggtgct 300  
gccagcagct ccaggacgtg agccgcgagt gccgctgcgc cggcattcgg agcatggtca 360  
ggggctacca ggaggccatg 380

<210> 9358

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D5

<400> 9358

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 agtgtgagca ggtcgactat ggaagtgaag ttgaaggctg cgcagatgat gagaaccctg 180  
 gcaagagggc tgcttttagtt actttgggtg gaaatgaata ctgcggcgac gaggattaga 240  
 gagttcaagt gctcaccatt gtcaagaaag gcgagcatgc agatgacatt gtcgaccgga 300  
 ttaatcctgg cacagttgca gggtagctg aaatgaaggg tgctgtaggt gct 353

<210> 9359

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D7

<400> 9359

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 tgctcacttg ctctagtgc cattattcca cagttcctcc ctccagttac ttcaatgggc 180  
 ttggaacacc cagctgtgca agcctacagg ctacaacaag cgcttgccgc gagcgtctta 240  
 caacaaccaa ttgccaatt acaacaacaa tccttggcac atctaaccat acaaaccatc 300  
 gcaacgcaac agcaacaaca atttctacca gcactgagcc aactagctgt ggtgaaccct 360  
 gtcgcctact tgcaacagca g 381

<210> 9360

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D8

<400> 9360

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 ctgtaccaag ccaacaaagt tcagcactga cgctgatgg aacttatagg gcgcccttgc 180  
 taggtggagt tccttctgct gggtacctag acacgacata ttatgggtat gacagcacag 240



gggcacaatt tgcattggtat gatggctctg cttatgcaaa tggacagcaa agaacaacca 300  
 caactaatcg ttttccatcc tgcgtcattca gtggtaaatgg ttcattctgca atatatcaga 360  
 acaagagctc caccacgcag cagatgggta tgcagaatag aagacctaca actccatcag 420  
 cagcttctac cta 433

<210> 9361  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D9

<400> 9361

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 agtgccccag atgggtttat gtgcccgggt ggctggaagg tactcgttga atactatgac 120  
 agcttggtgc catctgaggg cagcagcaag ctgctgaac caattgcagc ctaaactctgg 180  
 aaaatccttc atataaggaa tgctactata tcttagcaag cggttctttg cgacatagaa 240  
 ccgatgctat gtgattgtat actggctgta agactttaaa aactaggct tgattcggat 300  
 gttaatgtgt gctttgtacc cgggtgtacct tctctgctgg cagtgttgca catgcactgg 360  
 agcacatcaa acgtttggtg ttaataagga caggctatgt atcctctgcc agattgta 418

<210> 9362  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E1

<400> 9362

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 agaagggcat cccctatctg aacacgtatg atggccgcac catccgctac cctgaccgcc 120  
 tcatcaaggc caacgacacc atcaagatcg atctggagac caacaagatt gtggacttca 180  
 tcaagtttga tggtggcaac gtcgtcatgg tgactggcgg aaggaacact ggccgcgtgg 240  
 gtgttatcaa gaacagggag aagcacaagg gcagctttga gaccattcac gtggaggact 300  
 ccctgggcca ccagttcgcc acccgatagg gcaacgtgtt caccatcgcc aagggttaata 360

agccgtgggt gaaccct

377

<210> 9363

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E10

<400> 9363

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gcgagcaag atgtcgtggc aggcgtacgt cgacgagcac ctgatgtgcg agatcgaagg 120

acagcatctc agcgccgccg ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 180

gagcttcccc gagttaaaagc ctgaggaggt tgctgggtatc ataaaggact ttgatgaacc 240

tggtactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300

tgaacctgga gttgtcatcc gaggaagaa gggcactggg ggcattacta tcaagaaac 360

cggcatgtcc ttgattattg gtgtctacga cgagccaatg actccagggc aatgcaa 417

<210> 9364

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E12

<400> 9364

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cattagcagt tagtctcggg ctcggtggcc gtctttgctg gggcagctac ctagcagacg 120

catggcacac gtcgaccggc cacggagccg cgccgtgctc gcggtcgccg tcgccgtcgc 180

cgccgcggcg ctctctcttt ttgccgcagc gggcgctccc cgtgcggccg gccagacgac 240

gacgacagcg gtggtggatc tggacagctg ggccgatcgc ggcgcggcgt gcacggggcg 300

ggtggaggcg tgcggcgga tcggcgcgac ggccaggacg gagctgggtt ccggcgggta 360

catcagctac gacgccatga gccgcggggc cgtgccgtgc tcgtaccgct gcgcgt 416

<210> 9365

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-046-Q1-K1-E2

<400> 9365

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cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct gccctgtcgc 120

ggggctgcag ggcttgtagc gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180

gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtggt cgccggcgcc 240

ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc aacagtgtgt 300

ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360

gcagcttgag cgtgccgctg ncnacagcag cagcctgtac gagcc 405

<210> 9366

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E3

<400> 9366

cccacgcgtc cgcgcgctca gtgtcatttg cagttcccgg tagcagccat ggctggggtg 60

cagctgtctg ggccgcgggt ggtggcggct gcgaaaccgg ctgcgttggg cgggctcttc 120

ctgacgccgt cccttgccgt gccaaagggg cggagggcca ggggcctcgt ggtgagggcc 180

gccacggtcg tgtaacctaa gtatactcc ataaaaccat tgggagacag agtacttgtg 240

aagatcaaaa cctctgaggg taaatctgat ggaggtatct tacttccagt atcagttcag 300

acaagaccac aaggagggga gattgttgcg gttggagaag ggagaagttt tggaagt 357

<210> 9367

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E4

<400> 9367

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gtaatggcta tgagccggta ccacccctctg gtaaaacaag ccaactcttc catttcgcca 120  
 aggaaaaaat ggcggctcgc tgggctagac ttcgtgcagc tgtggcagcc tcagacatct 180  
 ttactctccc ttatgagcta tctggctatt gtagcttttc caatgagact gtcaccgcca 240  
 atcctccatt tgcattggctt cgctacaaca aggatgatat tgaagatctg gaggccttcc 300  
 tactcgagaa aaagattatc actcgaggctg gcacaagggtt tggagtggat gcaagggctg 360  
 tcagaagtag tatggttgac aca 383

<210> 9368

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D11

<400> 9368

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 atggtatccg tctacaacgg cattccccat ctgtgaccaa ctatctaaac tctgcgctct 120  
 accgttgggc tggtagatgcc aatacatttg atggcgacac atgtattgag ctctgtctgt 180  
 ccccaaacaa ccctgatggg ggcctccgga agcctgtcat caaatccaag tctagcaagc 240  
 ctgtttatga ctctgcctac tactggccgc agtacacacc catcaccgag gcagctgccc 300  
 atgatatcat gctgctcact gtctacaaat gcaccggcca tgccggcacc aggctgtggg 360  
 gggcattggg gaacgatact aagggtggctc agaagatgat caagcttata gagctc 416

<210> 9369

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B6

<400> 9369

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 cgctgagcaa gatcgcttgc aatcggtcgc acaaagagct cgccgagtgg cagccaaacc 120  
 cccccgtcgg gttcaagcac aaggctctacg ataacctcca aagggtgggta attgaggtca 180  
 ccggagcggc cggcaccctt tacgccggcg aggcttacca gttgcagggt gacttccctg 240

agcattatcc tatggaggca cctcagggtca ttctttctcaa tccagcgcca atgcatccac 300  
acattttacag caacggggcac atctgcttag atattctgta tgactcgtgg tcgccagcga 360  
tgaccgtgag ctctgtctgt atcagtatcc tgtctat 397

<210> 9370

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B7

<400> 9370

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cgtgcgcaaa aaaacaaacc atcctcgatt cgaccggagg ggaaggagac gcgccgggag 120  
aagggggaag agacgcggcg accatgtctc cgatctgggt gtccgggtac ggctcgtga 180  
tctggaaccc aggcttcgcc tacgacgacc gcgtcgtcgg ctttgtcagg gactaccgcc 240  
gcgtcttcta ccaaggagc acggaccaca ggggcacgcc gcagttcccc gggaggaccg 300  
tcacgctcga gcaccagccc ggaacgactt ggtggggagt tgcttacaga ataaaagagg 360  
gaagataaag ggatagcttt ggagtatctt ggagtca 397

<210> 9371

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B8

<400> 9371

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tcggctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttccctca 120  
atgctcacia gctactatag cttaccttct tccgccatac cttccatcaa tgatagcttc 180  
agtatgtgaa aaccagctc ttcagcccta tgggctgcaa caagcaatcg tagcaagcaa 240  
cataccttta tcacccttgc tgtttcaaca gtcgccagcc ctatctttgg tgcagtcatt 300  
ggtacacacc atcagggcac 320

<210> 9372  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cgccgacggg ccgccataac cgactaccgc aagaagctgc tcaactgcag ggagctcgag 120  
 tcgcgcgtcg gcaccgtgag agaaagcctt aaaaatgcaa agagggattt taccaagact 180  
 gaagacgact tgaaatctct gcagagcgtg gggcaaataa ttggagaggt tctccgacct 240  
 cttgataatg aacgctttat tgtgaaggcc agcagtgggc cccgatatgt ggtcggttgc 300  
 cgaagtaaag tagacaagga gaagttgaca tctggaactc gtggtgtact tgacatgacg 360  
 accttgacaa taatgcgcac tcttncacgg gag 393

<210> 9373  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C10

<400> 9373

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 acgagcgcac accagggtag agtacgtatt gctcgtgatt tgtgtaacta cggagcaagc 120  
 tgcatacagc acaagataga agatgggtat ccttgagagg atcaaggaga ttgaggccga 180  
 gatggctcgg actcagaaaa ataaagcaac agaatatcat cttggacaac tgaaggcaaa 240  
 actagcaaag ttgaggacac aactattaga gcctccaaag ggttccagcg gaggtggaga 300  
 tggttttgaa gtcacaaagt ttgggcatgg tcgtgttgca cttattggat ttcccagtg 360  
 tggaaagtca actcttttaa cgatgttgac tgggacacat tctgaagctg catcatat 418

<210> 9374  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C11

<400> 9374

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cccggaacca tcaacagtgg tcgtggtgct gaattogaag gggctgtcat tgcactgttc 120  
catctgttga ttacgagaac cgatacagtg ctcgctcttc gtgaggcttt ctaccgccag 180  
aaccttaciaa atgtgaccaa tttgcttgcc actgtcttgg tgttcctcat agttatctat 240  
ttccaaggct tccgtgttgt gcttccagtg agatcaaaga atgctcgtgg ccagcaaggc 300  
tcatatccaa ttaagctgtt ctacacttca aacatgocca tcattcttca ctctgcgctg 360  
attaccaacc tctattttat atcccagctt ctctacagga agtacagtgg aaa 413

<210> 9375

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C12

<400> 9375

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ggcccaagca tacctagggc ccttgagctc cctcccgcat ggcgttcccg cggagcctgt 120  
cggatacggc cgacgtaccg cctgtggcgc ccgcgcccgg ctccctttagc gtgtgcgcgt 180  
ccgtgaccgg actcacgcgt gtgccggttc tcaccggcag gcggcgcaag tggagcacgc 240  
tcgtggtctg ctcaggacac gactaggaga agattaccaa gcggtcagcc gtcgatttga 300  
ccatcgaatg ggagagacca aagcctgtga cgagacctga tatcttcctt aagtacaggc 360  
caatgaagac accattaccg catgcgtgac cagctgacga tccgatggat gatgatcaa 419

<210> 9376

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C2

<400> 9376

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gagttctggc gcggcacagg agatagcgcc tcgatcttca tccctgggtg gcaaacaatg 120  
agctacttct ccgacctcgg cggcatctgt tggttcctgg agcctggatt cgagcgcgag 180  
gtgcggcgtc tccacaggct cgtggggaat gccgttgtag acgggtacca tgtgctcgtc 240  
gggacaagct ccactcagct ctttcaagcc gtgctgtacg cgctcttaac ttgcagtgc 300  
ggcacaacca ttgacctcgt ctcaccggca ccggactact cgtcttacct atctgtgacc 360  
aactatctaa actctgcgct ctaccgttgg gctggtgat 399

<210> 9377  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C3

<400> 9377

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cctgcaacaa caattgttgc aacagattgt accagctctg actcagctag ttgtggcaaa 120  
ccctgctgcc tacttgcaac agctgcttcc attcaaccaa ctgactatgt cgaactctgc 180  
tgcgtacctt caacagcgac aacagttact taatccacta gcagtggcta acccattggg 240  
cgctgccttc ctacagcagc aacaattgct gccatacaac cagttctctt tgataaaccc 300  
tgtcttgtcg aggcagcaac ccacgcttgg aggtgccatc ttttagatta catatgagat 360  
gtactcgata atggg 375

<210> 9378  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C4

<400> 9378

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tggaattact gttaggcctc aacagttgga ctccactgtg caaccaaacc atgtgttcgc 120  
tagccagggc aatgcaacac ggaggctgcg gctacagggt gagtgtaggg agatcataac 180  
taaagatgag agtgaagatg aagtatcatg tgttctaact ccagactgtt tgaacgattc 240



tgttgaggag tccactgcag agaaggatgt ggcttctgat ggggatgagg ctgagtcaac 300  
aaggattggt attagaagcc a 321

<210> 9379  
<211> 330  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-C5  
  
<400> 9379

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cagccagcta gctggtgtga gccctgctac cttcttgaca caaccacagt tgttgccgtt 120  
ctaccagcac gctgcgcta acgctggcac cctcttaca ctgcaacaat tgctgccatt 180  
caaccaactt gctttgacaa acccagcagc attctacca caaccatca ttggtggtgc 240  
cctcttttag atttcttatg agttatagtt caataataaa gttttttgtc tgatgtttgt 300  
ggcttcccag aaataagaaa gtacatttct 330

<210> 9380  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-046-Q1-K1-C8  
  
<400> 9380

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tgtctgcgca tgctaggtat gcatggcacg gtgtatgcaa attatgcagt ggataatgcc 120  
gatctgttgc ttgcacttgg tgtgcggggt gatgatcgtg tgacagggaa gattgatgct 180  
tttgcaagca gggctaagat tgtgcacgtt gatattgac cggctgagat tggcaagaac 240  
aagcagccac atgtgtacat ctgagcagat gttaagcttg ctttgcattg catgaatgct 300  
catgttgaag gaagcacatc atagaagagc ttggactttg gctcatggaa cgatgagttg 360  
gatcagcaga agaggggaatt ccgccttgag tataaaacat gtaat 405

<210> 9381  
<211> 415  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C9

<400> 9381

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gggcgcggcc gtggcggtgg gccaaagaccg ctttcttcgt cgcggcgatg ctggcatcgc 180

tcctgctcgt ctgcgcgcgc cgcgtgctcg tcgtgctcct cgacctcgcg ctcccgcgcg 240

cgctcctcct ccgcggcggg gatggcgggc gcggctcgct cgcgctggcg gtcgtggccc 300

aggcgcgggc gttcgacttc cgctcctcgc tcgtcgacct gcccgccgtc tccgcggcgc 360

gcgcgctgct catcctctgc gcgtacgtgg cgtgcggcgg aggcggcgcg tacct 415

<210> 9382

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D1

<400> 9382

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gactacgac actactgtaa gcccatgtac cgtctggacc caacgacagc tgatgacctg 120

ataccagcac tcttggcgta acactctcac actgttacia ctgcgacata cgctggcatt 180

gaactcaact tgcattcacg ataccctaca ccattctacc aacagctcat aattgttgtg 240

accgtccttt aactatgccc taatacaacc agaacaatat taagaggcta tacactatct 300

ttgccgatct ccagacgtac gaacaggcat ctctcaaagc ggcagcaggg gggaaagaag 360

<210> 9383

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-D10

<400> 9383

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tgcaagcgcc acctccacgc atacaagcgg cggtgcagc tgccagccta cggcgccggc 120  
 tgatttaccg acaacagtgc atatgccaac tccggataag ctgacagcta cggagcatct 180  
 cacaccgccc attcacctgc cgacgccggt acacctgcaa ccggcagaac atgtgccgac 240  
 gccggctcat ctgacgacgc aactatgcca gtaccctact gaaccgagcc ggcgtgagca 300  
 tgatccccc aa gcacacacat gcgcgcgcca acagccggat ccaagcgc at gccagatgca 360  
 tggaacctgc agcgttggca ggacgccgac cctgagacag tgccaagag 409

<210> 9384

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B4

<400> 9384

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 caacaggcgg aagtaattct tgctgatggg aaattaacag aggctaaggc tgaccagctt 120  
 gctaagattc aaaagcaggt cggtttgcct actgaacatg cacagaaaat cattaaggggt 180  
 attacaacga caaagttatc ttctgcaatt gaagcctctg ttgctcgggg tcagatcgggt 240  
 atacagcagg tccgaagatt gaaggaagca aacttccaac tagatagctt gattgcggaa 300  
 ccgcagcgag aaagcattta taggaaaact gttgaagagc tcttttttca ggtacagggg 360  
 atttcgatga agaggaaatg tatg 384

<210> 9385

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H9

<400> 9385

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 gcatacaagc ggcggtgcg gctgccagcc accgccgccg gttcatctac cggcgccgggt 120  
 gcatctgcca cctccgggtc acctgccacc tccggtgcat ctcccaccgc cggtcacact 180  
 gccgccgccg gtccacctgc caccgccggt ccatgtgccg gcgtcggttc atctgccgcc 240

gccaccatgc cactacccta ctcaaccgtc cgggcctcag cctcatcccc agccacaccc 300  
atgcccgtgc caacagccgc atccaagccc gtgccagctg cagggaacct gccgcgttgg 360  
cagcaccgcc atcctgggcc agtgcgtcga gtttctgagg catcagtgca gcccgacg 418

<210> 9386

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A1

<400> 9386

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tggaaatcgg gaatttttaa aagcgtgctg ctaatcatgc aaaggagcct aagaatgtaa 120  
atcgaatatc actgacgact aataaagtac aacctgatca atcagcaagc caaccaaacc 180  
atgttgccaa tgcctaaaag taccgaggtc ttattacata ttagctagag agtattttctt 240  
acatacatcc aaaacaaccg tttaaattatt gataggatat tgccatcgaa tcaacacctg 300  
gttcactatt aaatacac 318

<210> 9387

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A10

<400> 9387

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gaaaaaaaa ataaatacac aaaaatgcaa cgatgctatt cttcaataaa gataccgtaa 120  
ttcaattcac taggctcata actttacaac gtcgtcactg agaaaacatt tggttctacca 180  
tcagcttaaa aacaattgca caggtaagac tttaaccaga tggactttta tca 233

<210> 9388

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A12

<400> 9388

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ttgacctgtg ccttgaccgc atcaggaagc ttgcagataa ttgcactggg ctccagggct 120

tcctcgctctt caacgctgtt ggtggaggaa cgggctctgg gcttggttct ctctctctgg 180

agcgcctgtc tgttgactat ggcaagaagt ccaagctcgg tttcacctgt taccatccc 240

cccaggtgtc cacatccgtg gttgagccat acaacagtgt cctgtccacc cactctctcc 300

tcgagcacac tgatgttgct gtctgctcg acaatgaggc catctatgac atctgccgcc 360

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<210> 9389

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A3

<400> 9389

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gtcatggaat tgttacaaaa caagcagttc ttgt 94

<210> 9390

<211> 356

<212> DNA

<213> Zea mays

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<400> 9390

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catgagattg aatacaagaa tgctgtaa at gatgctttga agaccgctct tgataccttc 180

tgactctgta accaactata tgactcagat atggatgggtg accaggagta ttagatagcg 240

cacttactgt gcactctaca caatgctgca gacaattcaa atgagagctt aagaagggtt 300

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<210> 9391

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 taatacccga aactgtaact ttgtgctcta ttcagagcac atcatcccag agaaccaata 180  
 atttctacta ccaattgtgc actgagtcca ttacgcctac ctttgcgacc cggacatcca 240  
 atatgcaatt tctacaatcg ctactgcatg tgcaagatcc gaccagattg cacattacat 300  
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<210> 9392  
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 <223> unsure at all n locations  
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 gaggggtgttg gatcataaca gcattgtagc tgaggtcacc aagcaattgc aagcccgttt 180  
 cttgccaaat cctgttgtca taaagaaacg cattgaatct ctgattgaac gagagttctt 240  
 ggaaagagac aaagtagata gaaaattata tcgttatctt gcatagaaaa ctgtcatgag 300  
 ataattcatt agcagttggc atccttctgc tcttgtaaaa cggttttctt tatgctcgag 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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ttaccccata tgataagttc tgcccattct acaaatccgt ttggatgatg cgcaatatta 180

ttcacttcaa cacattggca aatcaggctg tggagcgggc agctggtact gatggccaaa 240

agataacata cgggtgtcata aaacaccgtt tgggcgatct attttatcgc ctagtatctc 300

aaaagttcga ggatcctgcc gaaggtgaag aagctttggt cggcaaattt aagaaactgg 360

atgatgacct nacca 375

<210> 9394

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B10

<400> 9394

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cgcagttgac cgggtcctcg gagcacgatg aagtttgttg ctgcctactt gcttgctgtc 120

ctcgctggga acgccagccc ctccgctgag gatttgactg ccattctgga gtcagttggc 180

tgtgaagttg acaatgaaag gatggaactc ctgctgtccc aactgagcgg taaggacatc 240

accgagctca ttgccgcggg cagggagaag tttgcttcag tcccatgtgg tggcgggtgg 300

gtcgctgttg cggcagcttc acctgctgct ggcggagctg ctctacagc tgatgcaaag 360

aaagaagaga aggtggaaga gaaggaagaa agcgatgatg atatgggctt cagcctctt 419

<210> 9395

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B11

<400> 9395

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tccgcatcgc ctccggggac ttcgggattg acaacttcct cgagtgccca acctgtggct 120

gcggggttcga ctgcaacgac ctgctcatgc tccagaaggc ggtggcagcc accgccaggc 180  
tgcgcctgcg agtgccttct aaaattccac tcatgcaaat ccagatggga tagaagttca 240  
gac 243

<210> 9396

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B12

<400> 9396

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gctagagcgg ccttctctgc ctgggtgcaag gccaaactccg aggctaccct aggcacctac 180  
aatgggtgatg ctggcgtcga caccgagagc cttcacgtaa aggactacaa gtactgactt 240  
gcttctcttt gagatcccg agtattggaa ctctgcctg cgagtaggtt gctgagtgtg 300  
ggttgcttgt tagagctatt atattctgac atgaaaaaaaa catgcttcct atgtggatga 360  
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<210> 9397

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B2

<400> 9397

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aagggggaag agacgcggcg accatgtctc cgatctgggt gttcgggtac ggctcgtgta 180  
tctggaacct aggcttcgcc tacgacgacc gcgtcgtcgg ctttgtcagg gactaccgcc 240  
gcgtcttcta ccaaggagc acggaccaca ggggcacgcc gcagttcccc gggaggaccg 300  
tcacgctcga gcaccaacct ggaacgactt gctgggaagt ggcttacaga ataaaggagg 360  
aagataagga gatagctttg gagtatcttg aggtcaggga gaagcaatat gatgag 416



<210> 9398  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-B3

<400> 9398

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caggaagtat gagaggttga gaaaagagag ggaggaaaag agagcgcagc gtgatcggct 180
tcgtcaacgt gcagaggcgc aggctgctta cgacaaggcc aagaggaagg agcaatcgtc 240
aagtcgctca tcaggagggtg catctaccag aggctttcct tggaggatgc cctgtgggtg 300
gttcacctaga gggatgcccc gtggagggttt cccccggggg ggcatgcctg ggggtttccc 360
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<210> 9399  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H7

<400> 9399

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tccggccaga gattgctaaa gtggctgata agatatatgc cgtgagacac aagaataggg 180
tgagcaacat cgacgtgggtg tccaaggagg aggccctgga cttcatcgag cgtgatcaga 240
cgtacaatgc tagctgaggc tgctgctgct gtgtattgat tgatctgcag gcagatgcta 300
acgcagacag gatagttcct gttgcgttat ggatattctg gcctattgtt gtagctgtgt 360
atatgtgtga tgcagttagg tagctattgg accagcttgt ttggcgcatac aac 413
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<210> 9400  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G11

<400> 9400

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taacattacc atctgctgca tgaacgattg acttatgtat caagaggatg atataatata 180  
tagtatacaa tgaacgctga tgcaatacag tcaaaatgga ctagataatt accgcacaca 240  
tagcataatt atatatacga ttgaccgtcg aggaattgat aaggatcaac cagaagttga 300  
aaaatatcac ttaatgaa 318

<210> 9401

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G12

<400> 9401

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gccgtggcgg tgctccgtcct ggtggtgggc gcggcgggcg tgtgcgacat gagcaacgag 180  
cagttcatgt cgtgccagcc cgcggcgggc aagacgacgg acccgccggc cgagccgtcg 240  
caggcgtgct gcgacgcgt ggcgggggcg gacctcaagt gcctgtgcgg ctacaagaac 300  
tcgccgtgga tgggcgtcta caacatcgac cccaagcgcg ccatggagct tccggccaag 360  
tgcggccttg ccacgcc 377

<210> 9402

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-045-Q1-K1-G2

<400> 9402

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agatggcggg tatgggcgat atgccgatga ggccggcgcg gccggggccc ccatgcagc 120

accgtggtcc gccccgatg gcgcgccttc gccccgaacc aatcgaccgc gagaagacct 180  
gtcctctgct gctcaggggtt ttcacaaggg ttgctgggtca ccacaaaaat gaagagtttg 240  
cagtgaagagg gaaggaacca aaggatgaag ttcagattta cacatggaag gatgcgaccc 300  
tncgcgagct cactgatctt gtgaaagagg ttgctcttcc agcaagaaaa aggaatgcaa 360  
ggctttcttt tgcatttgta taccagaca agaatggtcg ttatgttgtc agacaggtgg 420  
gg 422

<210> 9403  
<211> 409  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-G3  
<400> 9403

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ggcgctcatg aacgcgctcg cgtactcgtt gaagaacgtt ctgcagaagg tgatgccgga 180  
gctgtggaag gacatcaacc acaagatcca ccagaactgg atctataact ggatcttcct 240  
cacgctcttc gtcagcacct acgactacgc cttgtaatac accgtgtatg acaaggttta 300  
cgacaagttt tacatgagat gttatatgca ctgagcttta gagactgaca ttggatttaa 360  
catttgcatg atcaagttta gttaaccgcc tatatgtatg tatatatcc 409

<210> 9404  
<211> 417  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-G4  
<400> 9404

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gaattttcaa agcctttgat caacatgatg aaggctgcag gttgggatct tgatggggct 180  
gccaatgcga tcgaacctgg tgtggtttac acaagaaggg ctcacaagaa gtttgctttt 240

gaatcctata tttgccaaag aatgttcagt gggttccaag aggagagctt ttctatcaag 300  
gattctaaca tcagtgtttc caatgaggct ttcttcacc aattccttgc agtgcgagcc 360  
atggatcctc tggatgtcct gagccagaac cctgattcag tattcggaaa gttctgt 417

<210> 9405  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 9405

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tttacgcccc ttttgacctg taactactca cgttcataat gtcttattgg ttgcgcgtcgt 180  
gacaggtctc ccaccaaatt taccgattcg gcttcctaaa catgcggatg aggacggcta 240  
cgctgctgaa ggaattcctc tcagatccgc tgctgacggt attccgctca ggtcaccaag 300  
ggctacagat tcatttcgct cgatcatgatg ccccgctgag atttgcattgc gcaactcaat 360  
cgtgtcactt gaaggctcat acccagcang cgtcagtcct atatatacat gg 412

<210> 9406  
<211> 417  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-G6  
<400> 9406

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cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180  
gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag 300  
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360

caagtagctc tggcaaacct ttctccctac tctccgcaac aacaatttct tccattc 417

<210> 9407  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G7

<400> 9407

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cctccacggg ggtcagctag ccatgcttca cttatactgc tgttgaacct atgtatcagc 180  
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<210> 9408  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G9

<400> 9408

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cgctctaggg cctctacgac acctgcatca tcttcttcga cggcgccatc gtgcagatca 180  
acaagcatct aactactttg gacgatgctc tgattcgcac gaaatggatg aactgcaaga 240  
aagcaatctc tgaagaagtg gaaattgtga aacaggtgga tgctcaatta aagtccctta 300  
aagaagctcc tgcgacacgg cggatcatcat cacctgctat tcgggctaata aatcatttg 360  
ttttccaacc gttggatgag tatgcaacat cttcaccagc accctttgat gatcctgatg 420  
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<210> 9409  
<211> 402  
<212> DNA  
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<223> Clone ID: LIB3059-045-Q1-K1-H10

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ctgcctactc tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg 180

ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcataccgtg 240

cttccttctt gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg 300

caaccctgtt acaactacaa caattgttgc ctttgtcca acttgctttg acagaccag 360

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<210> 9410

<211> 387

<212> DNA

<213> Zea mays

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cggtaacctgt gctggataac atgttgcattg agtatcggcg caacttataa cacattgtca 120

aatgggacta tgggagtcca aaacatatta catttaacca attggacgaa ctgaaaccac 180

gatgattatt tgcagcagaa aataactacta accatttagc cagctagctg caagcaaacc 240

gagcttaaatt tgggacacca gttcaagggtg ccgaatttat actagcagtg agcggataac 300

caagcatccc tattacgact acaacaatga gtgcacgtac gtgcaacttg caatgacaga 360

cccagcaaac ccctaccatc aacacat 387

<210> 9411

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H2

<400> 9411

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cgaagagggtt attatgggat gtagttcgag gaggtccaaa agagcgggaag catctggccc 120

aggtggaac aaggagagca gaggatggca gtacccatcc ttctggccat ctggcagcca 180  
acaggatcat catgggtaga agagcagcaa cacatccctg cctggcactg tatgtgccgc 240  
accacctttg catgaagcca accttggaga gggcaaccga aagcagagag acacctgaca 300  
tcattcattac tagctaccat gataagatca tcatataaac ctagctacac tgcgtacct 360  
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<210> 9412

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H3

<400> 9412

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agagttgacg gacaaaccaa gctggatgca cagccagagc tggtatccac attgtcccgc 180  
aaggtaaca cacactgcaa tcatcgacag tgcattggta tgaccaatca gaccttgtga 240  
caaccttggc accattgcgc ggtcaggcac gaaggaattc atggaggcac ttgctgctgg 300  
tgctgatgtg tccatgattg gccagtttgc tgcggtttc tactctgcct acctgtttgc 360  
agataggggt gtcgtgacca ctaagcacia tgatgatgag caatacgtgt 410

<210> 9413

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G10

<400> 9413

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ctacattcta tcagctgcct gatccattga gttatgtccc ataagacgat atagtatatg 180  
ctataaaagc catcgccgtc acacataggg aaaatggacc aactgattac cgcattgata 240  
gcatgattaa gtatacagat tgaccgtcgt ggaatagata ggtatcggac tgaagttgaa 300

aaatatta

308

<210> 9414  
<211> 410  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-E5  
  
<400> 9414

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actgaagagg ccgtcgttcg ggacgcgggc gtggcggctg ctgcggctgg cgggtgctgtg 180  
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ccacggccac ggcctcgccg gcctgggcgg cgcgcgcggc gaccggctcc gctgcggcga 300  
gcgcgagtac tccatcgacg agacgcgggc gttccggttc cgcaccccggt ccgcgcgcgt 360  
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<210> 9415  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-E6  
  
<400> 9415

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gatccaatcc gtgaagctct cactggtaga gatctgattc ctgagatggg taacggttaa 180  
gataaccgaa caacactttg ttttggagggt atgcataagg tcctcatctc atgtaaattgt 240  
accaggaggg gacctaagga gggaatgccg gggcaagatt acagtggaat gtactgcgca 300  
ctgttaactg tgggctctac cgaggtgtca gcagcacttc tgcgtgtaat gggaggcgat 360  
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<210> 9416  
<211> 179  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E7

<400> 9416

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gtggcagcct gagaccagac acgaggatgc tgaccgagtt cagcggctat gagttggagg 120  
tatccagagg agctagttgt ggctgctaga catacgactt ctgccaagac taacgctta 179

<210> 9417

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E8

<400> 9417

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ctctcgcggt ttattctatt gtccattacg caaaactgct tcaccggtgt ttccagagaa 180  
ctagcgtcca cacgcagatt atcactgctc tagagaaaag gccagttgtg tcgtatagaa 240  
gatcagatga cgcgacaatt ttgagtgaac ctctgctgga actcaccaag aaagcacaag 300  
ggagctctaa ggctaaacag agaaaaccag ttgctaccga gatagctcct gcgacattgc 360  
atgacagtac cagccagct aacaaaaaca tctaagagga tcaggacgcg tgctc 415

<210> 9418

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E9

<400> 9418

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tcaacactgg ctataaagct gatgatttcg ctgatgacgc actctacaaa aaagagctga 120  
ccgaggatcc ttatgatcag agcatcctat atgaagtgga ctaagacttc agaattgtatc 180  
ggctctggcag gactgatagg aagaaatgac ctgatgacaa tgagtctata gaagattacg 240

aatgttatat gggtgaaatg attcagcgaa cgaaagctga ttgatctcca gatgggatga 300  
 ttgactgcta atgtcttaca tcgagacata gagcctttca aagcatgggt ggggatggcg 360  
 aatgata 367

<210> 9419  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-F1  
 <400> 9419

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 gggtccttcc gcatgtggtg gatcagatca agtcaccct caaaatcaat tagaggcact 120  
 attactttta gcaaataaac cagatatagt tgagaatgtt tcatattcac attcgctgca 180  
 taactccaca ttttcagagc tcttaccgat attgatagaa catgatcacc ctatcgtagt 240  
 tttttggatt ctgctcttac cacctagtcc tggcatgtca acagcgtcga cattttgaac 300  
 tctactgaga acacagctta ggcattgaaa ggctggatga acttggtgtg ctacatgtac 360  
 aagaatactc ttacgtcttg tgattaaaaa aaaaataaat aaaataaata aat 413

<210> 9420  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-F10  
 <400> 9420

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 gccagtgcgt cgagtttctg aggcattcagt gcagcccgac ggcgacgccc tactgctcgc 120  
 ctcaagtcca gtcgttgagg cagcagtgtt gccagcagct caggcagggtg gagccgcagc 180  
 accggtacca ggcgatcttc ggcttggtcc tacagtccat cctgcagcag ccgactccat 240  
 gccctacgc tgctgccggc ggtgtccgac actgaagaaa ctatgtgctg tagtatagcc 300  
 gctggctagc tagctagttg agtcattcag cggctacgat tgagtgataa tgtgtcacgc 360  
 atcaccatgg gtggcacagt cagtgtgagc aatgacctga atgaacaa 408

<210> 9421  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F11  
  
 <400> 9421

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 tcgtaatcaa agaaatatgc atgactggta acatcgctat gagacatgaa atgatgggtg 120  
 caacagccca tttctggcga tatcgtgctg cttattacc agacctgatt gaagcggtga 180  
 cgatacatgc accgacattt gtatatagga caaattacgt catttctagt caaacataca 240  
 atgcttctac tgatgcctat gctgtggaat catacgatag ctatttactg aaccatgtac 300  
 tctatgctca ttgcagtgtt ctggatgaag atgatgcgac tgaacatcga tcggatactc 360  
 tttccattct tgtgaatgac 380

<210> 9422  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F2  
  
 <400> 9422

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 agatcttctt cgcccgtta gccgacgacg agcaccacca gggcaaccag atacttcagt 120  
 ggcttcgcaa ggatgtcctg gtgcactatt gagtctgac ctggtgtgtt cactgagctg 180  
 attcagcaaa tgcaagtga aggtgtacag gttgaagagc tttactctct cgatgtgggc 240  
 tctcttagtc aactgcggcc agtatatggg ctaattattc tttcaagtg gataccggc 300  
 gagaacgatg aacggctctgt tgtcagagat cctaaccxaa accttttctt tgcgcaccaa 360  
 gtcacacta atgcatgtgc tactcaagct attctctcag ttctcatgaa tc 412

<210> 9423  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F4

<400> 9423

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cgcatctcgc ccttgccccg cctcgcgatct tcggctccca atcctcgctg ctgctgctcc 120  
cgcgccgcgc gtcgcccgc cccgtctccc tctctcaccg ccgcattcgc gccggcgctg 180  
cgaccaagga acccgagctc ggcggcgggc gatcgggggc cggcgacggt gccggaggga 240  
gcgggcgggc cagcgacccg aggggaggag ggcaggaagg agacggggag gaagagaaga 300  
tggggcaggg cctgtccatg tcgcagaaac tcaccctcgc ctacgccgcg ctgctcggag 360  
ctggtggtgt aatgggatat atgaagagtg gaagccagaa atccttggtc gc 412

<210> 9424

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F6

<400> 9424

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caacaatttc ttccattcaa ccaactgtct aactgaacc ctgctgctta tttgcagcaa 120  
caactattac catttagcca gctagctact gcctactctc agcaacaaca acttcttcca 180  
tttaaccaat tggccgtact gaaccccgct gcttatttgc agcagcaaact actactacca 240  
tttagccagc tagctgcagc aaaccgtgct tccttcttga cacagcaaca gttgctgcct 300  
ttctaccagc agtttgcggc taaccccgca accctcttac aactacaaca attggtgccc 360  
tttgtccaac ttgctttgac agaccagcg gcctgctacc aacaacacat cattg 415

<210> 9425

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F7

<400> 9425

cccacacgta ccattcacaag ttgagtttta acaaagattt gccagaattc cggtcgggaa 60

ttacaatcac ttaccttgct actaattaca taaatgaatt attctaca 108

<210> 9426

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F8

<400> 9426

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acgtaaggga aaatcttgca acgaagctga aaggaccagt acagatcaca tgattctaca 120

ctccactacc atctatagca cgctaggggt gatcttctat caagtccaag ttgaactgat 180

cagtattcac aatggctacg attgatcatg gtgtaatttg catgcaatgt atgacctgtt 240

ggagaacaac tgctgatgag gtagaac 267

<210> 9427

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E2

<400> 9427

ggaaccactc ctttttcatc ctgtggtaag tacggccctg gttgagaacc gccaggggta 60

tcttatcacc agcatccaga acaaggcaca cgaactggca aactgtccaa tgctcgtgac 120

gttgtgtgag gaagctggag agatcctctc gaacatgaat catccagcaa gtgattgacc 180

atgggtgtcta tatccgttaa tgtgagagga taagggtgac tctgaggtgc catctatgaa 240

gccgatgtca tgctaccatt gctgccacag tgactgcatt atgagatggg gggaatggct 300

ccaacatggg gacacacacc cagaggagca cactactgga gctcatacta gcattataat 360

gtgaatcatc caagacgatt ttgtactgta tgccgcacag tgttcgatga gaaggatatt 420

<210> 9428

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D1

<400> 9428

aaatattttg gccccctata cccattgagc caattggaaa tgcttcttcc ggctgcaatt 60  
ttcccgcaaa gttaccagcc tccttatcat acatttttat cgcgtacctt ttaccagcgt 120  
tgactctcaa atgtgaaaac ccaattcttc aaccctacac gatccaacat tctatggcat 180  
cacgcatctt acctttatca cccatgatcc ttcaacaatc atcaggccta ttacagccta 240  
tccatttggg gcattttattg gcgcaaaaca ttatggcaca acaactcgtg ctagcaaacc 300

<210> 9429

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D10

<400> 9429

gccacgcac agaaaaccta ctccattgct cttttcttat agccgcgcgc ggaacggggtt 60  
gctagcgctc tgagctctca tactagcgct cgtggaaggt cgtctagaca tggctctccga 120  
gacggagacg ttcgtctacc agacggagat caaccagctg ctatcgctca tcatcaacac 180  
cttgtactcc aacacggaga tctaacttag ggagctcatt tcaaactact acgatgcata 240  
gaataagatc aggttcgata gttagacgga caatagcaag ctggatgccc atcctgagca 300  
tttaatccac atcgctactg acaaggccaa caatactctg acaatgattg acagtgtcat 360  
aggtatgacc aagtcagacc tagggaacaa ccttgggtgcc attgcacgat ctggcaca 418

<210> 9430

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D11

<400> 9430

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cgacatggcg ccgatcttag taatcgcaac gaaccgaggg atcacgtata tccgcgggac 120  
aaactaccgc tcgccgaatg ggatcccgcc agaattcctt gaccggctac tgattatcac 180  
gacgcacccc tacacggagg atgagatccg gaagatcctg gatatccggt gcgacgagga 240

agacgtggag atgtccgctg acgccaaggt tctgctcacc aagattgggtg tggagacctc 300  
tctgcggtat gccatcaacc ttatcacatc tgccgcgcta gcctgccaga ggcgcaaggg 360  
gaaggtggtc gagatggagg acattagccg ggtgtaccaa ctgctcctgg acgtgaagcg 420  
g 421

<210> 9431  
<211> 196  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-D12  
<400> 9431

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aaaaacaaga catgataaca agctaaccta tactacaaat aaaacatcat acgatatcat 120  
ctataatatc ttacgcatgt taaaactgag ctattcaatc atatacgctt cagcaagcaa 180  
tctcagcacg caacat 196

<210> 9432  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-045-Q1-K1-D2  
<400> 9432

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gctctggaac accctcgggtg agtgcaagta caccatcgga ggtgacctcg gtggcggcga 120  
gggccacaac ggggtgggtct actgcgtcag gttctcccca aacacatttc agcccaccat 180  
tgtctccggt tcttgggacc gcaccgtcaa ggtctggaac cttacgaact gcaagctgcg 240  
cttcactctc gatgggtcatg gcggatatgt taacgcgcgtc gtcgtgagcc ccgatggatc 300  
gctctgcgcc tacggcggga aggacggtgt tactctgctg tgggatttgg ctgatgggaa 360  
gaggctgtac tcgctggatg cgggct 386

<210> 9433  
<211> 407  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D5

<400> 9433

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tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 120

gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 180

gacacagcaa cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt 240

acaactacaa caattgttgc cctttgtcca acttgctttg acagaccag cggcctccta 300

ccaacaacac atcattggtg gtgccctctt ttagattgct tattagttgt aattcattat 360

taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagtta 407

<210> 9434

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D6

<400> 9434

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tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc attattccac 120

aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180

gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgcg gcgagcgtct 240

tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300

tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc 360

ctgccgccta cttgcaacag cagttgcttg catcaaacc ctttgctctg gcaaa 415

<210> 9435

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D7

<400> 9435



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 ataggatcct gctgctacat tcgcccattgt tccacgcgtc tcaggtctta ttagccgcat 120  
 gccactcatg agcttgaata tgcataactca tagagcatgt catgagtata taatgacata 180  
 gacagagagg agccgtaagt gtaaatacag gaagggtata tgctatatat gcgacgatca 240  
 aaa 243

<210> 9436  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D9

<400> 9436

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 aatttttact gtgtgcgagg cacttctggg agccggggac cgtccgcggg aaggcatggc 120  
 acagttggct cttaagcttt cctgactttt ggttcttcta cattgaggct gttgaccatg 180  
 gagccttttt ttttgagtag tagaagtatg caaattgaac catggaagtt ctatacgacc 240  
 cacaatccgg gtcaacattt tggtgtagat atacatgtct ggtagttctc tggtgtcctc 300  
 ctggtcgacc cgaactcctt attaagagct gatacttggg acccatggta tgcattgtgaa 360  
 attctgctcc atgtacagag agtagaaaag aaaatgaaag ccgtgctagc tggttat 416

<210> 9437  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E10

<400> 9437

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 ttgtgctagc aaaccttgct gctactctc agcaacagca gtttcttcca ttaaaccaac 180  
 tagctgcatt gaactctgct gctaatttgc aacaccaact accattcagc cagctagctg 240  
 ctgcctaccc ccaacaattt cttccattca accaactggc atcattgaac tctcctgctt 300

atacacagca ggcacatctt atacaatata cccatatctc tggtagagagc tgttggtgttt 360  
 ttttcac 367

<210> 9438  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-E11  
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 gtaaagtgtt tcctgtcgaa ccctggcgga tatgcaaccg cagcaagaac tgctgggtgat 120  
 gcacaggcta gggatcaact tgagcgagtt attgaatgcc ttgagacaga caagtgtgag 180  
 acattccaag actgtattac ctgagcccggt cttagctag aggattatct ctgcaaccgt 240  
 gtcaagcagc tgacattcac tttacccgaa gatgcaatga ctagctcctg tgctccttac 300  
 tgatctgctc ctaagcgggt ccgcgcacct ctgcagttct cgtctagcga ctcaagtcac 360  
 ctttaacttct tgatggctgc atctgtatta atggcagaga catgtggaat ac 412

<210> 9439  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-045-Q1-K1-E12  
 <400> 9439

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 tagcttcagt ttgtgaaaac caagctctta aaccatatag gcttaaacia gcaatcgcag 180  
 caagcaacat acctttatcg cccttggtgt gtcaacaatc gccagcccta tctttggtgc 240  
 agtcattggt acaaaccatc agcacacaac atgtagaaac tctcgtctta cgtgatatca 300  
 accaagcatc tggggcaaac ctttcttact actctcagca acaacttttt ctattataca 360  
 aacaacttac tatgctgaac gctgcttatt atatgcaaca actattacca a 411

<210> 9440

<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C9  
  
 <400> 9440  
  
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 ctcgctttgg caaacgtagc tgcataccaa caacaacaac atgttgcaac agttggtgtc 180  
 agggctcaat caactagtca tgggtgaacat ctatcgacta cctacaacag cggcagcttg 240  
 catcatttag cccgatcact attggcaatg catgtacata catgcaataa caggcggttg 300  
 aacaactgaa gctgtaacaa attgtaccag ctcttactga gctagctgac tcaaaccctg 360  
 ctgcctactt gccacatcta ctgcatcca accaactgac t 401

<210> 9441  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-B5  
  
 <400> 9441  
  
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 catagagaat gttacgcaac agtacaataa tatagtaaca catcttcagg aaagtattag 180  
 caggaagagt tgtcacagaa atgttctcaa aacggcctaa aagggtgcag gcatgggcaa 240  
 gcggaacaac tttcaatcac aagttcttga acgcagactc atgaggaagc ttctgcggcg 300  
 ttagcctagc caacaatgcc ttgttcgaga agtggtcagc atcaacaaag tagaagttcc 360  
 cctcagcctt aaaggtgaca aagggcctgt ttgtttcagg aggcctg 407

<210> 9442  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-B7

<400> 9442

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tcgaccatgg ctaccgtat ccagtttgag aacaactgtg aaattggtgt tttctccaag 180  
ctgacaaatg cttactgtct ggtagcgatt ggagggtcag agaacttcta cagtgccttt 240  
gaggctgagc ttgcagatgc catccctgtg gtcaagacct ctattggtgg cactagaata 300  
ataggccgac tttgtgttgg aaacaagaat ggacttctat tgccacatac tacaaccgac 360  
caagagcttc agcatctgag gaattgcttg cctgatcaag tgggtggttca 410

<210> 9443

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B8

<400> 9443

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gaagcctgtg agcagacaaa gacacttgcy aagtgcatac aagcgctatg ttacagaggc 120  
aatcgggctg tcatatctcg attattaccg tgatctagcc gtacaaataa agtcatctga 180  
tcgtgataag agactgagcc tactacgaag gttcttcttc tgggttgaga acttgtgcca 240  
tgagggagcc tacatgcctt ggatctccaa acctctagct tgcaacccca tttcaccgga 300  
tggatgaata tgaaccgagc ccactctca tcctcaagac acacgaagat gagccctagg 360  
ggtgagcggc tagcagagat ttgcttgag catccctgca tctctgatgc tacttg 416

<210> 9444

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B9

<400> 9444

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aggcgccggc cggaagaag cccaaggcgg agaagcgtgt ccagcaggc caggcccgcc 180  
gccaggaagg ccgccaggga aagaagggcc cgagaaaagg ccaggagAAC cttgagacct 240  
tccaggacca ctttcttcaa gggcctgaac caggtccacc cggccatggg catttccttt 300  
aaggc 305

<210> 9445  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-045-Q1-K1-C1  
  
<400> 9445

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accccgcca tggaatccag ttcgtccgca acgacgcaa ggtcttcgcg ttttgccggg 180  
caaagtgcca taaaaacttc aagatgaaga ggaaccctcg taaggttaag tggacaaaag 240  
catacaggca tttgcatggc aaggacatga ccaggatac aacctttgag tttgagagga 300  
agaggaacag gccggagcgc tacgaccgca atttaacgga gcagactctg aaggctatcc 360  
cgcttattac aaagattagg catgaccgta tgggaaaaca catctcanac agacat 416

<210> 9446  
<211> 402  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-C11  
  
<400> 9446

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gaagagcggg gttaagggcc caggagctcc accatcggag ggacgaggcc tgcagcttgt 120  
tgaggcgccg aaagttaact cgtgggacag cgtgtggact gagaatggca tgggaaagta 180  
aagggcccggt ttgggcaaga gtgaggcagt tctgctgaaa ggagaggagg acgagtttgc 240  
ttgtggaaga gaaatctgcg aatatctgtt cggatgcgtt ttgcatacgc atagaaggca 300  
taatcaagga accccttatg cctatttgta tttgtcatgt tctttcatgg agtacatata 360

gatcagtgtg caatgagaaa tgtgagcggc taatgtacca ac

402

<210> 9447

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C12

<400> 9447

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tcattggtac aaaccatcag ggctcaacag ctgcagcaac tcgtgctacc agtgatcagc 120  
caagtagctc tggcaaacct ttatccctac tctcagcaac aacaatttct tgcattcaac 180  
caactgtcta cactgaaccc tgcgtcttat ttgcagcaac aacaactact accattcagc 240  
cagctagcta ctgcctactc tcagcagcaa caattgcttc catttaacca attcgccgca 300  
ctgaaccctt gtgcttattt ccagcagcaa atactactac catttgacca gctagctaca 360  
acaagccccg ctatcttctt gacacaacaa caattgctta cgttctacca gcagtttgtg 420

<210> 9448

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C2

<400> 9448

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cataccttcc atcattgata gcttcagtat gtgcaaacc cagctcttcaa ccctataggc 180  
tccaacaagc aatcgcagca agcaacatac ctctatcacc cttgtttcaa caatcgccag 240  
ccctatcttt ggtgcagtca ttggtacaaa ccatcatggc acagcagctg cagcaactcg 300  
tgctacctgt gatcaaccta gtagctctgg caaaccttcc tccctactct cagcaacaac 360  
aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttattcg cagc 414

<210> 9449

<211> 388

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C3  
  
 <400> 9449  
  
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 cacaaattgc cattgtgctg gcggttctga aaacaagatt gatgtctctc cgcgcacttc 120  
 aatgaacagc tgattcttaa ctaaaatacc gtccatcaat gatagctcca gtatgtgaaa 180  
 acccaactct tcaaccctat aggctccaac aagcaatcgc agcaagcctc atacctttat 240  
 caccctcggt tcaacaatct ccagccctat ctctgggtgca gtcattggta caaactactg 300  
 cggcacatca tctgcagcaa ctctgtctac ctgtgatcaa ccaagtagct ctggcaaacc 360  
 gttctaccta ctctcagcaa cagcaatt 388

<210> 9450  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C4  
  
 <400> 9450  
  
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 atttcccttt atccgtcagt ttttaaaact acaataatcc cacaactctc acatccttct 120  
 acaacttata ctcaactaac ataccttcca tcaattataa ctccaatata ttcaacaccc 180  
 atctcttcaa ccttatattc ttcatcactc aatcacatca agctacatac ctttattaca 240  
 tctactttca acaatctcca tccctatc 268

<210> 9451  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-C5  
  
 <400> 9451  
  
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 gcgaaaggat gaatgcgcac ctgacagctg cagttgtctc aaacgaccgc ctattcctgc 120

aggatgtact tgggagatcc gttaacggga caacctacgc cggaattcga gcgaggacca 180  
 cgggcgctcc acagaaccac tggtttggcc cggccggtga tccgcgaggc gcatggatcg 240  
 ggactccgga agccatcaaa ctgtgtctggc cctgccacag ggaagtcata tatgacgtta 300  
 ggcccgtgcc cgagagctgg ggcgattcta tcgcgagctg attagctaga cgacgataga 360  
 ctattccatg tcattcacgag gaata 385

<210> 9452  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C7

<400> 9452

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 gaccagagtt ccaatctctg ttggttttaga tgaagtggca agtttttgtt gtgtgtgtgt 120  
 ctctgataaa aggcaacctt atttatgtct gtgacattaa tccaaatatg ctaaagtgtg 180  
 ggaaaaagtg tgttgcagaa agaggccccg agcatgaact tttctaatag attttgttgc 240  
 ctctgtctca agtgtgggtt atgttgttca acagttgggt tttatttcca gggtatagcg 300  
 aagaacattg tcttagctgg atacaaggag atgcataagc tctgagtttt gaggatggat 360  
 ctatggatgg ttacactatc gcatttggga tcagaaatgt gac 403

<210> 9453  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C8

<400> 9453

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 attgctactc agagaggacg cagtgttggc gacgccggtg gtgctgctga tagggtgttg 120  
 aaccagctgc ttactgagat ggatggcatg aatgccaaaga agacggtttt tattatcggt 180  
 gcaactaaca gaccggacat cattgaccca gccttgctga ggctgtgctg tcttgatcag 240  
 cttatctata ttctctgcc cgatgagcag tccaggcttc agatcttcaa agcctgtctc 300



aggaagtctc ctgtggccaa ggatgttgac ttgaatgctc tcgccaata caccagggt 360  
ttcagcgggtg cagatatcac agagatctgc cagcgcgcgt gcaagtatgc catc 414

<210> 9454  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A10

<400> 9454

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ttgattttta aggtggaaat gttcatatta taacaagcaa tgagggctgg gaccagaaga 120  
ttgcagaagc aaacagagat gggaaaactg ttgttgcaaa tttcagcgcgt tcttgggtgtg 180  
ggccatgccg tgtcattgct cctgtctatg ctgaaatgtc aaagacttat cctcaactca 240  
tggttcttgac aatagacggt gatgacctga tggacttcag ctcttcatgg gacatccgtg 300  
caaccccgac attcttcttc ctcaagaacg ggcagcagat cgacaagctc gtgggcgcga 360  
acaaacctga gctcgagaag aaagtgctag cagccgctga tgccagtacg tactagtgc 420  
ac 422

<210> 9455  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A12

<400> 9455

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ccaagatggt tgcattgttt gcgtcctag ctctttgtgc aaccgccact agtgctaccc 120  
atatcccagg gcacttgctc ccaactactga tgccattggc taccatgaac ccatggatgc 180  
agtactgcat gaagcaacag ggggttgcca acttgctagc gtggccgacc ctgatgctgc 240  
agcaactggt ggcctcaccg cttcagccgt gccagatgcc aatgatgatg ccagggtatga 300  
tgccaccgat gacaatgatg ccgatgccga atatgatgcc atcgatgatg gtgccgacta 360  
tgatgtcacc aataacgata gctagtatga tgccaccgat gatgatgcca aacatggttt 420

cacca

425

<210> 9456  
<211> 314  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-A3  
  
<400> 9456

cttccgagggc acggcaccag gcaggattaa cttgcctttc gatcatatcg tcaactgggc 60  
cggcgggtgtt cgacaccatg agctccacgg attgcggcgg cggcggcggc ggcgccaaga 120  
cgtcgtggcc tgaggtggtc gcgctgagcg tggaggacgc caagaagggtg atcctcaagg 180  
acaagccgga cgccgacatc gtgggtgctgc ccgtcggctc cgtgggtgacc gcggattatc 240  
gccctaaccg tgttcgcate ttcttgga ca tgcgtgttca gacgccccac atcgtgtgac 300  
aatatataag ctag 314

<210> 9457  
<211> 419  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-A4  
  
<400> 9457

cccacgcgtc cgagcacaat agtgtaccaa caatggcagc caaaatattt tgcttcgtta 60  
tgctccttgg tctttctgca agtgttgcta ccgcaaccat tttcccacaa tgctcacaag 120  
ctcctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca gtgtgtgaaa 180  
acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc ttaccattat 240  
cacccttggt cctccaacaa ccgtcagccc tattacaaga gttacctttg gtccatttgg 300  
tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcat 360  
actctcagca acatcagttt cttccattca accaactggc tgcattgaac tctgctgct 419

<210> 9458  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-045-Q1-K1-A5

<400> 9458

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tgcttttgta gtgtctgctt ttcagggaca agttactagc ctttcaatgc atacatatgg 120  
ctgccgtgta attcagagaa tctcgtatca ctgcggtggt aactcacaac gtcagtgcac 180  
aatatacgag atattacagt gcatgtgcat ccttgcgag gatcagtatg gcaactatgt 240  
tacactgcat gttctagaaa gaggtatagc tcatgacagg agccttatta ttactaaatt 300  
cgcacgtcac gttgatacta tgagccaaga taaatatgca tcagatgtga tagagaagtg 360  
tnttcaacat ggagatatag ctgagcggga tcttatgatc ag 402

<210> 9459  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A6

<400> 9459

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aaaatatctt ggtcgccatt gttgctctat tggtgctact ggattccact ttctatgttg 120  
ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt gttcccccat 180  
accttccatc aattatagct tcaatatgtg aaaaccagc tcttcaacca tatacgcttc 240  
aacacgcaat cgcagcaagc aacatacctt tatcgccctt gttgtttcaa caatcgccag 300  
ccctatctat ggtgcagcca ttggtacaaa ccatcatggc acaacagctg cagcaactcg 360  
tgctacctct gatcaaccaa gtaactctgg caaacctttc tccctactct cagc 414

<210> 9460  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A7

<400> 9460

cagatcagca aagcggcagt gcgtagagag gatcgtcgaa cagaacagca tgaagatggt 60  
catcgttctc gtcgtgtgcc tggctctgtc agctgccagc gcctctgcaa tgcagatgcc 120  
ctgcccttgc gcggggctgc agggcttcta cggcgctggc gccggcctga cgacgatgat 180  
gggcgccggc gggctgtacc cctacgcgga gtacctgagg cagccgcagt gcagcccgt 240  
ggcgggcgcg ccctactacg ccgggtgtgg gcagacgagc gccatgtacc agccgctccg 300  
gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg cgcagcagct 360  
gcagatgatg atgcagcttg agcgtgccgc tgccgccagc agcagcctgt acg 413

<210> 9461

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A8

<400> 9461

cccacgcgta cggatgatgaa catgataatg catattcttg cgctttataa gggaaggtga 60  
gcatcttata gtaacttata aagcgcaaga atataaatta ctatgagatg ctcatattcc 120  
tttaaaaaaac accatactac atacctagaa cagcactgac atccagcctg acaacaaaaa 180  
taggcacgac gcctattcta cagcatccaa gattacctca ggcattcctgc gagcatcacg 240  
ctgtcgtata gcgccatact actctcaatt gtgtgcccac tatcttcaaa caccaggcgg 300  
gccaaaaaca ttgcttcaca caacttacta ggattataga cattcaacct t 351

<210> 9462

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A9

<400> 9462

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ccatttccta gtagaatccc gtgcttaaga atctggctga tgatgagccc gttatataga 120  
atgcccttgc cggaagaat cccaatgcag caaaacgtgt accaacaggc aagtccatca 180  
gcaaggacgg cgctgtggaa aagaaggacc gtaagatgcg cacgaatagc gtggagacct 240

acacgatcta catcttcaaa gtgctgaagc atgtacacca gtac 284

<210> 9463  
<211> 419  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-B1  
  
<400> 9463

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aggatggaat tgccccactt cctaattccg gtgggttttta atatggccat tctgaacctg 120  
ttgggttata ccctaccgct gtatctagta ctaaagcccc gtttgtttcc ttccaagatt 180  
atataatcca gctcgtggat tatataagca cctattgacc tgcttataga ttatcataat 240  
ctagatatcc ggattatata attcacctaa taatctatat tgcttggttta actctcaatt 300  
tatttaagct agattatata atatagatgg taaacaaaca acgactaaaa catattttct 360  
gcaacataaa atttctgagt tcacaagttc aacacagagt acagaatatt atatagatt 419

<210> 9464  
<211> 352  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-045-Q1-K1-B10  
  
<400> 9464

aacagatctc gctatggaca ttctatztat actctacttc aagatcaatc agtaagggtg 60  
catgcacgta ggttcattcc aaatatctgt actcagcaat tgactaatcc gattagtcga 120  
aatgctgcgt attgagcaac acacggctct tgaagcatca tatattgcca tgcaaacctg 180  
taaacttagc gtggttcata ttgtgtacag tcagatgacc tgcaactatg acaacttaac 240  
tcacgtagta ctgtcgagct aactaaacta catatgctag taaagcacta attcatatga 300  
tactatagga tgagcatatg cctatttgaa ctgctgatgc tattggatct tg 352

<210> 9465  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B11

<400> 9465

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atggcagcca aaatattttg cctccttatg ctcccttggtc tttctgcaag tgctgctacc 120  
gcgaccattt tcccgcgaatg ctcaacaagct cctatagctt cccttcttcc cccgtacctc 180  
tcaccagcgg tgtcttcggg atgtgaaaac ccaattcttc aacctatag gatccaacag 240  
gcaatcgag ctggcatctt acctttatca cccttggtcc tccaacaatc atcagcccta 300  
ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa 360  
caacttggtc tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 420  
caacta 426

<210> 9466

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B2

<400> 9466

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ccttgctctt tctgcatgtg ttgctaacgc gaccattttt cctcaatact cacaagctcc 120  
tatagctgcc cttcttcccc cataccttcc atcaatgacc gcttcagtat gtgaaaaccc 180  
agcccttcaa ccctacaggc tccaacaagc aatcgcaaca agcaacttac ctttatcacc 240  
cctgttcttt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 300  
ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc caagtagctc tggcaaacct 360  
ttctccctac tctcag 376

<210> 9467

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B3

<400> 9467

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 ggtggcctaa ctgcataatg ccggatttaa atagagaggg atggatagac gacacacatt 120  
 atcatgtgtg gtatgaccaa taatatatgc atgatcataa taaagttttg gttttaatg 179

<210> 9468  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-045-Q1-K1-A1  
 <400> 9468

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 actannntat tccacaatgc ntncacaaac aatnnacctc tctttccggt gaccagcnn 120  
 gcgaagatnn ttgaataccc cannactata caatnnccta caggctnnna caaagaggcc 180  
 anntcgcagc aagggcattc ttaaacggtc gtnntagcat nntgaccggn tccaacaacc 240  
 ccatatgnnn cctattgcaa cccaaccann tccttaatgg gaatctannt atctcnncaa 300  
 agaatcnng cagcacaaca nacctacca acaaccagtn ntgctntcca nnataatcan 360  
 anntcaagta gttnnngcag cgaacncttn nngctgctta cnctnncnna gcaacaacca 420  
 nnatttcttc ccattttcaa tc 442

<210> 9469  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-G5  
 <400> 9469

aggacatcac tgcccaaate atatctgcta gtatagcggg tgatatgggt cttgcttggg 60  
 cctactcgca tgagttgcc cgaataggtc ttgaagttgg tctgaccaac tatgcagctg 120  
 cctactgcac tggccttctg ttggctcgcc gtgtgctcaa gatccgtggg tcggatcagg 180  
 agtacgaggg caatgttgat gccactgggt aggacttctc tgatgagcca gctgatgaga 240  
 ggaggccttt ccgtgctctc ttggatgttg gccttatcag gactacaaca ggtaaccgtg 300  
 tctttgggtg cctcaaggga gcattggatg gacgcctgga tattcctcac agcgagaaga 360

ggtttgctgg attcaagaaa gacgacaagc aattggatgc tgataccac cgcaggtaca 420  
tctatgggtg ccatgttgct gactacatga 450

<210> 9470  
<211> 445  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-044-Q1-K1-G6  
  
<400> 9470

cccgcgccg ctagccctag ccgccgctcg ccgacttcat cgtcgccgctc gtctagacgt 60  
cttcacgcac tggaaagggt aaagtccgac atcaatggcg aagcatcatc ctgatctcat 120  
catgtgccgg aagcagcctg gcatcgcgat tggccgcctt tgcgagaaat gtgatggcaa 180  
gtgtgttgct tgcgactcgt acgtgcgccc atgtacgctt gtccgggtct gcgacgagt 240  
caattatggt tcgttccagg gaagggtgtg gatctgtgga ggagtcggca tctcagacgc 300  
ttactactgc aaggagtgc cccagcaaga gaaggaccgg gacgggtgcc ccaagatcgt 360  
gaatctcgga agcgccaaga cggatctctt ctatgagcgc aagaagtatg gttttaagaa 420  
gagatgaccg agaagatgga gctgt 445

<210> 9471  
<211> 231  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-044-Q1-K1-G7  
  
<400> 9471

cccacgcgtg cgcgatgcag ctgtctgtct tcaaataat agctcactcg ccggttggtg 60  
cggtacggat tgatgtgtgc gtacgtgatt gaagacggag gcccataagt gcgctgtcag 120  
cactggccat gtgcctggct cgatacgact ccaacgtcct gctgaccgat gtgaccgcac 180  
tctcggcggc tgtcactttc gtcgcggcgc atgaccteta ctcgcggtgc c 231

<210> 9472  
<211> 366  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-044-Q1-K1-G8

<400> 9472

gaaagtggaa tccagtagca acaatagatc aacaatggag accaagatat ttggcctcgt 60  
tatgtccttt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 120  
agctcctata gcttcccttt ttccccata ccttccatca attatagctt cagtatgtga 180  
aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240  
atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaac 300  
catcaggga caacagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 360  
aaacct 366

<210> 9473

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G9

<400> 9473

ggcttctcct cccctccgg ttccgggttcg ggctcgtgag gttctccgga gttcgggttc 60  
gtgggtgagc ggatcgagat ggccgcgtcg gatgttgagt accgctgctt cgtcggcggc 120  
ctcgcttggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240  
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300  
gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 360  
ggtaggttac gtggtggccg tggaggcggc ggctacggcg gtggcgggcg ccgtgat 417

<210> 9474

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H1

<400> 9474

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togctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120  
 tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180  
 gtatgtgaaa acccagctct tcagccctat aggcctcaac aagcaatcgc agcaagcaac 240  
 atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
 gtccaaacca tcagggccca gcagctgcag caactcgggc tacctgggat caaccaagta 360  
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<210> 9475

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-H10

<400> 9475

caaccatata ggcttcaaca agcaatcgca gctagcaaca tacctttatc gcccttggtg 60  
 ttgcaacaat cgccagccct atctttggtg cagtcattgg tacaaccat cagggcacia 120  
 cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa cttttctccc 180  
 tactctcagc aacaacaatt tttccattc aaccaactgt ctacactgaa cctgctgct 240  
 tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc tcagcaacaa 300  
 caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa 360  
 atactactac catttagcca gctagctgca gcaaaccgtg ctttcttctt gacacagcaa 420  
 ca 422

<210> 9476

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H11

<400> 9476

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 ttgtgcatgg tgagaagttc aatcagccca tatttctactg caacaacatc tctggattcg 120

ttgaaccagt cgttccagac aatcagaaca gggccctgta ctcaactcac accttcaaga 180  
tcttgttcaa ggaaggcggc tgtggtactt tcgttcctct c 221

<210> 9477  
<211> 129  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H12

<400> 9477

cgggctcaag gcaccacaac ttgatttact tgtgctaact gggatcaacg gaattggttt 60  
tggcaaactt ttttccttat tttcggaaca accatttttt tcatttaaac caattgttta 120  
aattgaacc 129

<210> 9478  
<211> 448  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-H2

<400> 9478

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caagtcaagt cggagcccgc aggtgtcgac accgcgcgcc gggagccgga agaaggggtg 120  
accatgagcg cgaccgggcg agccccgtgc ggcctgccgc gcatcggcct gggcacggcg 180  
gtgcagggcc cgcggccgga ccccgccgc gccgcgggtgc tgcgcgccat ccagctcggc 240  
taccgccact tcgacacggc cgcgcactac gccaccgagg cgcccatcgg ggaggccgcc 300  
gccgaggccg tgcgcacggn gctcgtcgcc tcccgcgagg acctcttcgt cacgtccaag 360  
gtctggtgcg ccgacgcgca ccgggacagg gtgctcccg ccctccgccc gacgctcagc 420  
aatctccaga tggaatacgt ggacctgt 448

<210> 9479  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H3

<400> 9479

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acggagatat tatccctcct tgcgcttctt gcgctttttg caagcgcaac aaatgcgtcc 120  
attattccac aatgctaact tgctcctagt tccattattc cacagtctct cccaccagtt 180  
acttcaatgg ccttcgaaca cccagctgtg caagcctata ggctacaaca agcgattgcg 240  
gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac aatccttggc acatctaaca 300  
atacaaacca tcgcaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360  
atgggtgaacc ctgtcgcta cttgcaacag cagctgcttg catccaaccc atttgctcta 420  
gcaaacgtag ttgcaaacca gcaacaac 448

<210> 9480

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H6

<400> 9480

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cgaccaagat attttccctc cttatgctcc ttgctctttc tacatgtggt gctaacgcga 120  
caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180  
caattatagc ttcaatatgt gaaaaccag ctcttcaacc atataggctt caacaagcaa 240  
tcgcagcaag caacatacct ttatcgccct tggtgtttca acaatcgcca gccctatctt 300  
tggtgcagtc attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctc 360  
tgatcaacca agtagctctg gcaaaccctt cttcct 396

<210> 9481

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H7

<400> 9481

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cagagccagt gccagtgcc gtgccagtga agcagagcag cagcatggct cgggacacag 120  
cagcaggcac aatcagccta gcgaggcggt cccgcccagc cggcccaca gctccaggtc 180  
agagagagac cccagacatg gcggcagcag ggatcagcac ctccaggacg gcgcccgtgg 240  
gttgctgcac cctagcgaca tgttcacgt gaagaagaag aggcaagagc gcgagaggag 300  
cggaatcggg tccccttcca gctcgggccc aggcgccgga cctttgtcgc cggccaacct 360  
tgggcgctccg gcccttgccc cttggc 386

<210> 9482

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-H9

<400> 9482

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ctccgccacg gccgcgaggc ctttcgccgg gactgccgtc ctgctcccgc tctcggcgcg 120  
gacgcggcct gccagggctg ccttgctctc cctgattcct cctgctccgg cctgcgcct 180  
tgctctcagg cgcggcgcggt ggctcccact cccggagcgc agccgggtcgg tgcggtgctc 240  
ggcggctatg agcccgagga tgcggggcgc gctggacaag gtcgtaggct ccagcaaggt 300  
ggtgctgttc atgaagggca ccaaggactt cccgcagtgc ggcttctccc acaccgtcgt 360  
gcagatcctg cgctccctcg acgtgccctt cgagacgctc gacgtgctcg ccaacgaggc 420  
gctccggca 429

<210> 9483

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-G4

<400> 9483

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ctttcaccat tgtatgttca taaacttctt atacaacata cactaaacta taactaccac 120  
actccctaac cctatctact tcaatctact tcaccttaaa cccttcacaa caactactcc 180

tcaatcttca gatcttatcc gatattccaa cacacactga cattaatcaa cattacaatt 240  
 ctcatcacat ccctactacc tatcaccaac tatcacacta tctataataa tataacaataa 300  
 aaataacact ttcca 315

<210> 9484

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E9

<400> 9484

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 ggaccaaaaca taaaggacaa caactacaac aacttgtgct aagaaacctt gctgcctact 120  
 ctgagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 180  
 tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat 240  
 tcaaccaact ggcagcattg aactctgctg cttattttaca acagcaacag ctaccaccat 300  
 tcagccagct agctgatgtg agccctgttg ccttcttgac acaacaacag ttgttgccgt 360  
 tctacctgca cgctgcgcct aacgctggca ccctcttaca actgcaacaa tt 412

<210> 9485

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F1

<400> 9485

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 aaaaaaaaaa aaaaaaaaaa aggacatggc ccaattcata aaatcacatt aactacaaaa 120  
 acaaacctcc gctgtaaaaa catcctttat ataaccactt gtccttttaa aacccccatt 180  
 ttaaaatata aaaaacgcct tcaaaaaaa aaaatccaaa ctaacaatac acgtgcatcc 240  
 tacctctaaa actctcccct attttctacc caaacttaaa aaacttaacc tttttttaaa 300  
 aacgtcccaa tttaaaaaac ccttacttta cttaaaaaaa ccgtcatttt aaaaaaccct 360  
 tcttttccaa cttttattac cctaaaaa 388

<210> 9486  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F10

<400> 9486

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 caagataattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120  
 tttccctcaa tgctcacaag ctcttatagc ttcccttctt ccccatacc ttccatcaat 180  
 gatagcttca gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc 240  
 agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300  
 gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360  
 caaccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 420  
 c 421

<210> 9487  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F11

<400> 9487

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 attctcgggtt tatacaccaa gcagaacatg tgctcgtctat gctccagtgg agtgatagcg 180  
 ggggtactcgt tgctgcgcgg catgtgtggg gctgtcgatg tgaggaaaaa ccttcttcca 240  
 aaaccggcag atgcatgcat gcatgctaca ataaggttct gatactttaa tcgatgctgg 300  
 aaagcccatg catctcgtcg cgttgctctc tctatatatt taagaccttc aagggtgcaa 360  
 ttaaacaatag agttttcgtt ttctcgtttc ct 392

<210> 9488  
 <211> 406

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F12  
  
 <400> 9488  
  
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 gaggcttatt attggccatt accccaggtt attggaaacc ttttggcacc agaacaagct 120  
 ttttttgggtt aattaaacca ttcaaatttg gttaaacctt gaagacccat ttgcacgtga 180  
 taggtacaac caatgattta aagtcgccta gtcggctggt cgaaccttgg gactgaccag 240  
 gcgactagtc gcgattaggc gacgactagg gcgactagtc gacctcctagt cggtcctagt 300  
 cggtccttgg tcgtcctaga ctagtagcta tacttatata ggtatatata taaatatacc 360  
 tgtatacatt atataaatta gaacaaacaa ctaggataaa caaagt 406

<210> 9489  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F2  
  
 <400> 9489  
  
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 gtctcgcgct cccgtcagct acattcgggt caagcagctt ttgcgaatgg aggtgccact 120  
 caagttcgct cctttgccaa ggatgcagct ccagctgacc gtctctctgt tgggtggggat 180  
 gatctcctga agggcatatt ctttgaggta aagaagaagt ttgagacagc tctcggcgctc 240  
 cttaaaaagg aaaagatcac tattgatcca gatgacccag cggcagtttc tcaatatgct 300  
 caagtcatga agactgtaag ggaaaaggcg gatcttcttt ctg 343

<210> 9490  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F3



<400> 9490

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gggagaagat gatctacgac gtgaactccc cctcttccg ttccttcctc agccagaagg 120  
gcggcgccga caagaggaaa atggaggagc ataaaccaa ggagcagagg cccaaggcta 180  
acgagaacaa gcctgtgatg aacgaatgaa tatctccaga agctttgttc aatgtgcaac 240  
caagtccgat gtccgtctgc tctggtcagc ttaaaaccaa cgcttccaat aatcctattg 300  
gtgtcttagt ttcccccttat agtggtattt gtcgggcttg aacatggcaa cggaaatgaa 360  
acttgaacta tgggtactgtc atcaatttga gacccccatg attgacaact tt 412

<210> 9491

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-F5

<400> 9491

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agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc 120  
cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 180  
atgaacggca aggagctgga cgcccgcaac atcacgtca acgaggcca gtcccgcggc 240  
ggccgtggag gcggcggcgg tgggtacggg ggtggcgtg gaggcggcgg ctacggcggt 300  
ggcgggccc gtgatggcgg cggcggctac ggcggtgggc gcggtacgg tggcggcggc 360  
ggctacgggt gtggtggcgg cggtacggc ggtggcaacc gtggcggcgg ctacggcaac 420  
tncgacggga actggaggaa ctg 443

<210> 9492

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-F6

<400> 9492

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gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 120  
 ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 180  
 gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 240  
 gatgatgcag catgtcacca atgggtcttg cagcatgat gtcgcaaata atgatgccac 300  
 aatgtcactg cgacgccgtc tcgcagatta tgctgcaaca gcagttacca ttcattgttca 360  
 acccaatggc catgacgatt ccacccatgt tcttacagca accctttgtt ggtgctgcat 420  
 tctagataga aatatttgtg ttg 443

<210> 9493  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-F8  
 <400> 9493

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 cgccgagctt cctgttccc tccccgccc cgcgacgccg cgacgccatg gagccgccg 120  
 acgccgagca ggccgtcgcc gctgtagcag caggaggaga gggcggcacc gcaagcccg 180  
 gcaccggcct cgaagggccg gtgcttaggc gngggctgga cggcggtggg gaaggggagg 240  
 acggtgagct gggggcgng caggaggcga acgcacggct accagagcgg cctggcgagg 300  
 cggactgtgg ctactacctc cgacggccg cctgngcttc cgggaagcgt gccggtacaa 360  
 ccattcccgc gatcgtggcg gactgaggt gcgcgcgggc ggacgatttt c 411

<210> 9494  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-G1  
 <400> 9494

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 tcattgccat taacattgtc ttcaatgtac actggtattg gcggcgagat gacggatccc 120

aatcggcgctc aatctatctg agcttaaacc cttcacgaca agaggcacac gatcgccagc 180  
 gctgcgccga tagtccaaga tgcagtgtct cttgctgcgt tgntcttctg atctgcangc 240  
 gggtggccgt ccgcgttcgg cgaaggagct ggggtagt 278

<210> 9495  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-G10  
 <400> 9495

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 ggccaacatc aacccccacc gccaaagcgt catcgtctcc acggtggccg ggatggccta 120  
 cttcatcgcc gccgacaaga agatcctgtc gctggcgagg cgccactcgt tcgaggaagc 180  
 tccggagcac ctcaagaaca ctttcttcca gggcacccga cccccccacc cggctttctt 240  
 caagccatga tgagatcaga tatatatatg acacatccgg cgacctcatc agtcatagaa 300  
 cccaagcagc cagtcagtca gtcagcacia gcacaagcac caaagatgat gccattcaag 360  
 tctgcatggg tgcatttata aaaaataaac tgctangctg atgacgcgct ctaatataag 420  
 ctag 424

<210> 9496  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-G11  
 <400> 9496

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 ggctgggtgg aggtgctttg gttaccatt attcggattg gaaggccgtt tgtaaggggc 120  
 ctggctgaat aagtccttag tccctggctt aactgctgt gctaccacat gacatgatgt 180  
 actcgtgtgt gtgctaggat ggtgtgtaat tacatgacca tgatcagtaa tctgaataaa 240  
 aaatattgga gatgtgcttg cttcctaaaa aaaaacatnc gtcgacctaa tcaatcatag 300

agcccagcca gccagtcagt caagtaagca caagcacaag caccaaaa

348

<210> 9497

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-G3

<400> 9497

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ttaaccttcc tgaaggcctt ggaaaaccaa ttttaacaac aacaatggcc ttggtggttt 120

gaccgtactt ttcattggaa ggtccacagg aactaatgct tgatctttgg atgttgnttg 180

aagatgaaaa cacatcaaga gaaaattacg aggacaacaa tggttacatg cctncaagtt 240

atgaagaagg aacatcctct ggaggaggat tgagaatgaa actcaaacag tttcacaaa 299

<210> 9498

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D11

<400> 9498

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tcttcttcga catgaccgtc ggcggcgccc cggcgggccg gatcgtgatg gagctgtacg 120

ccaacgaggt gcccaagacc gcggagaact tccgcgcgct gtgcacgggc gagaagggcg 180

tgggcaagtc cgggaagccg ctccactaca agggctccac cttccaccgc gtcacccccg 240

agttcatgtg ccagggcggc gacttcaccc gcggcaacgg caccggcggc gagtccatct 300

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ccatggccaa cgccgggccc aac 383

<210> 9499

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-D12

<400> 9499

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cctcgtgttc gtgctcatct gcgggcgtct tgtcttcgga tgggtcatta agattgccgt  120
cttcggtgtc gaacgcaact tcttgcttaa gaagcccggt ctctactttg ggtatggagt  180
gccaacgcc gtgcaaaacg cgctcttgct cggcctgggt ctgcctctt ggcacttctt  240
gtttgacgag aatgtccagc aagagacgaa ctctccagta ctgccctatg tgacgaaggt  300
actattctgc tttcttggtg ccacgctcat ccgccttggt aagacattgc tgctgaaggt  360
actggcctnc tccttccatg tctcgacgta ctttgatcgg attcaagagg cattgttcaa  420
tc                                                                 422
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<210> 9500  
<211> 384  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-044-Q1-K1-D2

<400> 9500

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cacagcgtca aatgctgcat tcagagagca tgaggttccc aaatccagaa cgaatttcca  120
aggtaaagaa atcaatgtgc cggataaagc atgtcttgac tgagagggct atagcggagc  180
ccgatccaag gagatcttcg gaaatgaagc ggatgataaa tgccctgtga ttcactcaca  240
ggcattctcc cttgggactt ttgatgggtac ttattagaaa gatctgctgc cttctgttgt  300
atctctatcc cataagaact gtgagaccaa atcttttcga tgcccatggt atggtagcaa  360
aaattagact ntaactgac cgat                                                                 384
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<210> 9501  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D5

<400> 9501

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tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120

aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180

gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240

tacaacaacc aattgcccac ttgcaacaac aatccttgcc acatctaaca atacaagcca 300

tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atgggtgaacc 360

ct 362

<210> 9502

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D6

<400> 9502

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ttacaactac ccaagttttg agtttttgag atgtggctat ggcatgaact caaaccatct 120

tatgaggggtg aaacctgttt ctaatttcta tattgttgct gttcatt 167

<210> 9503

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-D7

<400> 9503

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attgttccat gtccgtgcaa tcatctgaac atgttactac ttattgtacc ttgtcgtgca 180

aagttttgct aagatctcta ttgtttcatg tcttctgata aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gcgccctttt 360

taagggtccc aagtttactt ccccgtcctt gcaacttcaa acctttttta tgggggcccc 420  
 aaaattaaat tcccgggc 438

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<223> Clone ID: LIB3059-044-Q1-K1-D8

<400> 9504

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 catacccaga ttaggaagat gaagggtttg aagcagaaga aggctcacct gatggagatt 180  
 caggtcaatg gtggtaccat tgctgacaag gtggactatg gctacaaatt ctttgagaaa 240  
 gaggtccctg ttgatgctgt cttccagaag gatgagatga ttgacatcat tgggtgtgacc 300  
 aaggggaaag gttacgaagg tgtggtcact cgttgggggtg tcacccggct tccccgcaag 360  
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<223> Clone ID: LIB3059-044-Q1-K1-D9

<400> 9505

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 ggtaccatga acccatgcat gcagtactgc atgatgcaac aggggcttgc cagcttgatg 180  
 gcgtgtccgt ccctgatgct gcagcaactg ttggccttac cgcttcagac gatgccagtg 240  
 atgatgccac agatgatgac gcctaacatg atgtcaccat tgatgatgcc gagcatgatg 300  
 tcaccaatgg tcttgccgag catgatgtcg caaatgatga tgccacaatg tcaactgcgac 360  
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421

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 <211> 342  
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 <213> Zea mays

<223> unsure at all n locations  
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 ttctacatca agtattcaaa gcttatggat ttgtggagaa gattgtcaca tttcaaaagt 180  
 cagctgggtt tcaagctctt attcagtttc actcgcgcca aagagctgtg gaagcatttg 240  
 gttcttgcac ggaaggaaca tatatgatgg ttgctgccag ctatgatattc aatattcaaa 300  
 tctcagtga ctcgaagtnc attacaacaa cgaccgatct ag 342

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 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E10

<400> 9507

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 aattatagct tcagtatgtg aaaaccacgc tcttcaacca tataggcttc aacaagcaat 180  
 cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa caatcgccag ccctatcttt 240  
 ggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt 300  
 gatcaaccaa gtagctctgg caaaccttcc tccctactct ccgcaacaac aatttcttcc 360  
 attcaaccaa ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt 420

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421

<210> 9508  
 <211> 423



<212> DNA  
 <213> Zea mays

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<400> 9508

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 tttcgattga agatcctttt gaccaggatg actgggttca ctatgctaag atgactgaag 180  
 aaattggaga gcaagtgcag attgtttggtg atgaccttct cgtcaccaac ccactaggg 240  
 ttgctaaggc tatcaaggag aaatcatgca atgcccttct gctcaagggtt aaccaaactcg 300  
 gatctgtgac tgagagtatt gaggtgtga agatgtcaaa gcgtgcgggc tggggtgtga 360  
 tgactagtca taggagtggg gagactgagg acactttcat tgctgatctg gcagttggtt 420  
 tgt 423

<210> 9509  
 <211> 95  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E12

<400> 9509

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<210> 9510  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E4

<400> 9510

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 agaagatgca ggcattctagg gcaaggcttt tcaaggagta caaggaggta cagcgagaga 180  
 agtcagctga cctgatatc caattaatat gtgatgattc taacatatc aagtggactg 240

ctcttatcaa gggcccttct gaaacacctt atgaaggtgg tgtgtttcaa cttgcattcg 300  
 caattccaga acaataatcc ttgtctgcct cctcaagttc gatttttgac caaacttttc 360  
 caccaaatgg tccttttcag gacaggtgag atttgtctgg atatattgaa gaatgcat 418

<210> 9511  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-E6  
 <400> 9511

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 ttgctcctgt tccgcgacca cagatgctcc aggcctggga gcgggagcga gagagatggg 180  
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 acatgcaggt ctactgctgc tgcgtcatcc cctagcatca tagctcctcg tcaacacacc 360  
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 tatagatgga tgaatc 436

<210> 9512  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tacgccaacg aggtgcccga gaccgcggag aacttcgcgc cgctgtgcac gggcgagaag 180  
 ggcgtgggca agtcggggaa gccgctccac tacaagggct ccaccttcca ccgcgtcatc 240  
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtc 300

atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgn ccccggtgtg 360  
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gcg 423

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<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-044-Q1-K1-B7  
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gatgttggtg aagtagggca gttccagac tttgtgccag aagatgaaaa gacgagatat 180  
gcgttttacc tggtgacctg tcaagggttg aggtttgaat gctccagtac ctccgaaata 240  
caggttgatt catgggtaag agcactgtca agtgactgca aattgcagga tggcgctggg 300  
gatgataaga tgatgaatac gaggagtagc caagtagaag ctgggtcatc atggtagacg 360  
atgtatggag tgctgtacag tacaatagtc aatgaaatgt acatacatta catgcatgta 420  
aaggagcaa catatgtacg tagtagacg 449

<210> 9514  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-044-Q1-K1-B8  
<400> 9514

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tcattattcc acagtgtcga cttgctccta gtgccagtat tccacagttc ctcccaccag 180  
ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagcgcttg 240  
cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300  
ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360

taaccgtggt gaaccctgtc acctacttgc aacagcagct gcttgcaccc aaccacttg 420  
ctctggcgaa cgtaactgca tacc 444

<210> 9515  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B9

<400> 9515

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tgttgcaccg agtgagaagc acccaggaag cttattagaa ggthtttttgc atactcaaht 180  
tagtaccatg gcagtgaagg ataatttgth agtagctggt ggthtttcaag gagagctaat 240  
atgcaaacac ctagatcgag aaggaataag cttttgctgc aggacaacat atgatgataa 300  
tgcaattacc aatgcattgg agatattcaa tacatctagt ggagctcttc acttcattgc 360  
atctaacaat gactgtgggg taagagagta tgatatggaa agatatcagt tgtttaagc 419

<210> 9516  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 9516

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gcgacaacat gattgagagg tccaccaacc ttgactggta caaaggcccg accctgcttg 180  
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gtgtcatcaa gcctggtatg gttgtcacct tcggtccaac tggcctgact actgangtga 360  
agtctgttga gatgcaccac gaggtcttc aggaggccct tcctggtgac aatgthggct 420  
tcaacgtgaa aaacgttgct gtgaaggatc tca 453

<210> 9517  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C10

<400> 9517

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caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag 180  
ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac 240  
tctcagcaac aacaatttct tccattcaac caactgtcta cactgaaccc tgctgcttat 300  
ttgcagcaac aactattacc attcagccag ctagctactg cctactctca gcaacaacaa 360  
cttcttccat ttaaccaatt ggccgcactg aaccccgcgtg cttatttgca gcagcaaata 420  
ctactaccat 430

<210> 9518  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C11

<400> 9518

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agtttgcaga gccggtacgc caaagcggtc aagaaaggcg cgccaccgag caaggatcag 180  
gatcgccgtc tcttcgacct ctgcaagaac gtctggcctt ctgttagcaa tgccaaggcg 240  
gttaccaagg ctgttaccaa ggcgtcggct aacgggtggtg ctgggaggga gcctgacgag 300  
atgtgtgagc tgtaccata ccttgcggag gaggtgaggg cgcttcagag ggcacacccg 360  
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aggatcaaga agcagaggcg tgcactgatg 450

<210> 9519  
 <211> 427  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agcgcaactt ggagaagaac aagggggcca aggggagcca gctcgagacc aacaagaagg 180  
 ccatgagcat ccagtgcaaa gtgtgcatgc aaacattcat gtgtaccacg actgaagtga 240  
 agtgccggga gcacgccgag gccaagcatc ccaagacaga cgtgtaccag tgcttcccc 300  
 atctgaagaa gtgaaaggcc tgaacttagc aaccagtgct ggtttggtca ctacgatcgg 360  
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 <211> 196  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-C3  
  
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 caggctatta accaga 196

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 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-C5  
  
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 accattttcc cgcaatgctc acaagctcct atagcttccc ttcttccacc gtacctctca 180  
 ccagcgggtgt cttcggtatg tgaaaacca attcttcaac cctataggat ccaacaggca 240  
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 cagc 304

<210> 9522  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-C7

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 <211> 437  
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<223> Clone ID: LIB3059-044-Q1-K1-C8

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ggtggtgagc ccaaggatgt cctgaaggat gcagcaactg atcctagcct gcctcgcacc 240  
agaagcgtca gatgttataa ctgcaaccat ccagaagctg ccttttttca ggccccgact 300  
aagggagaac aagccatgac gctgtacttc atctgctgca acccaagctg cgggcacagg 360  
tgaggaggact gagaaggatc tggcttggtc ttcgctgcaa acctgccgta ttgttagcct 420  
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<210> 9524  
<211> 157  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<210> 9525  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-044-Q1-K1-B6

<400> 9525  
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agttcatgac aaggcgtaaa gggcactcaa aggtcttgga atcaatagat gctgctgtag 180  
aacttgggta tagccctgtt aaggtcaact gtgtcatcat gcgtggtata aatgatgatg 240  
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ttatgccatt tgatggtaat gtttggaatg tgaagaatct agttccttat gcagagatgt 360  
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<210> 9526  
 <211> 407  
 <212> DNA  
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<223> Clone ID: LIB3059-044-Q1-K1-A11

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tctggtcttc ggtggacatg gaagagttgg ccacgacgtg gatcacttca cgtcgcctga  180
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ttctccgccc cgcacctgtg tggcttatta ccgtgtagac gaagcaaggg ctggacgacg  300
tcttcacgcg aaagcagaga caggaaagac gtctccagca gagagcatcg acgtcaaagc  360
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<210> 9527  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A3

<400> 9527

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agcatatgca cgtgcatggt gctcacgaac ttcatcctaa ctgtggtgga ggcgggcacg  180
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tatgcattga aagagttgca gtcccaagct gcccaagaaag actctatgcc caaggacgac  360
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<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A4

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tgctgcgcag cgtatgatgc tgatttggga cggctaatac agaaaggatc tctgctgact 180

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caataataa 249

<210> 9529

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A7

<400> 9529

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atgtcgagat gagaaaaaga gggaatagcc ctgggagcag aaagaaggtc ataacagcaa 180

ccgctagaca aatagagagt ttgatccgtc tcagcgaagc attagcccga atgcggttct 240

ctgaagtggc cgaagtgcgg gatgttgtgg aggcattcag gcttcttgaa gtcgccatgc 300

agcagtctgc gacggatcat gcaactggta cgattgatat ggatctgac atgacgggga 360

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<211> 449

<212> DNA

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ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gctcacaagc tcctatagct 180  
 tcccttcttc ccccatacct ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattgtt 240  
 caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 300  
 ctccaacaac cgtcagccct attacaagag ttacctttgg tccatttggg ggacaaaaac 360  
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<210> 9531

<211> 336

<212> DNA

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<400> 9531

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 cctaaagaac gctccaggcc tcagggaaag gctactgaca ggccttagcg ccccggttcc 180  
 tcaagaacct tcttcaactcc agagggtaat gaccgaggaa catggcagcg gcgcatcaag 240  
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<210> 9532

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B10

<400> 9532

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 gagaaagttg tatcagagct agttggaagt gaaaggatgg ggagcaacaa cagtgtgtaa 180  
 ttgctggaga gtatggaaaa ggctgaaaat gtttgttttg gtgggaatgg agttagtcaa 240  
 ggtggccttc cagaagagtt agaggtatga acaaggatac atcgtggaaa tcattactga 300

ggatcagtgg cgtcaacgac acataattga aggaagaatt gtggagatag ataagttcta 360  
 ccgcttgctg ggtggaatgg taagtagctc aactcacaag tttccttctg gacacagatt 420  
 tgcaattg 428

<210> 9533  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-B2

<400> 9533

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 tgcagcgcag cgccggacct nctgcgtgcc ggggtgggcc attccgcaca acccgctccc 180  
 gagctgccgc tggtagctga ccagccggac ctgcggcatc gggccgcgcc ttccgtggcc 240  
 ggagctgaag aagagatgct gccgggagct ggcggacatc ccggcgtact gccggtgca 299

<210> 9534  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-B4

<400> 9534

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 cttctggaca cacacagttg ttgccgttct acctgcacgc tgcgcctaac gctggcaccc 180  
 tcttacaact gcaacaattg ctgccattca accaacttgc ttgacaaaac ccaacaacgt 240  
 tctaccaaca acccatcatt ggcggtgccc tcttttagat tgcttatgag ttatagttca 300  
 ataatgaagt tttttggatg atgtttgtgg cttcccagaa ataagaaatg tactttctta 360  
 cttcttctctg gagagaaaaa gcagaagaca atacaaagat gtccaagatg gcggaggaga 420  
 aggcggcngc agtgggcgga ctc 443

<210> 9535  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B5

<400> 9535

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aaagaatgtg gactcaatgc tttaaataata agttagata cactagtacc tgcaaagttt 120  
gagttcatga caaggcgtaa agggcactca aaggtcttgg aatcaataga tgctgctgta 180  
gaacttgggt atagccctgt taaggccaac tgtgtcatca tgcgtggtat aaatgatgat 240  
gagatctgca attttgttga attgacgaga cacaagccca tcaacgtag atttattgag 300  
tttatgccat ttgatggtaa tgtttgaat gtgaagaagc tagttcctta tgcagagatg 360  
ttggacaaag tgcggcaaag ttataaagga gtagagagac ttcaagatca cccacagac 420  
ac 422

<210> 9536  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A10

<400> 9536

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tttcttacgc gtcgtgacca cggcacacgt gtgactgacg gctgcagggc ggagatgtac 180  
ttcaagcagg cgggtggcgc cgagccggcg gacggcgaag cgatgcggag gtacggcatg 240  
ttcctgtggc acgcccgcgg cgacacgggc ggcgcggagg acatgttcac cggcgccatt 300  
gacgcggagc ccgagagcag ccaccaccgg agcagctacg cgtggttctt atggatgacc 360  
ggcggcgctg agacctgcct catggacacc ggcaggcaga gcgacggcaa cgacgcggat 420  
tgaacc 426

<210> 9537

<211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-G7  
  
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 tgcttactgg ctactatagc ggatctactt ccggcataac tctgaccatc gacgtcacca 180  
 agatgtgcat tcgaattcca tcaacgctac aggacactag atgtagcgac agcactgatc 240  
 ataatgtata ggagcgtaag acgtcgaaca catacatctc atactacctc agatgcgtat 300  
 agagcttata cagacacgtt gcatgtcgat gctcagatac gtctactgca gctattaaac 360  
 cttgctgcct tagcatatgg acaactggaa gctttggcgc aatta 405

<210> 9538  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-G9  
  
 <400> 9538  
  
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 acaatgctca cttgctccta gtgccattat tccacagttc ctcccaccag ttacttcaat 120  
 gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg cggcgagcgt 180  
 cttacaacaa ccaattgccc aattgcaaca acaatccttg ccacatctaa caatacaagc 240  
 catcacaacg catcagcaac aacagttcct accagcactg agccacctag ccatggtgaa 300  
 ccctgccgcc tacttgcaag agcagctgct tgcaccaac ccacttgctc tggcgaacgt 360  
 agttgcaaac catgctcatc atcagctaca acagtttctg ccaacgctca gtcaacta 418

<210> 9539  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H10

<400> 9539

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agtactcgca ggagccgggc aaccctacca agtcggctaa ggccatgggc agggatctga 120

gggtccactt caagaacaca agggagacag cttttgcgct tcgcaagttg tctttgacca 180

aggctaagcg ataccttgag gatgttattg ctcacaagca ggcaattccc ttacggagat 240

actgtggggg tgttggtcgc accgcgcaag ctaagtcgcg ccactccaat gggcagggcc 300

gctggcccg taaatcagcc aggttcatcc tggatttgct gaagaatgct gagagtaacg 360

ctgatgtgaa aggctcggat gtggacaacc tctatgtttc acaca 405

<210> 9540

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H11

<400> 9540

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acaaaaaaaa aataaaaaaa atactcacia tatcctggca cccattccaa gtctcctaag 120

gtcatgttca cgtatcttct actccacttc actaacatca tgcacactac cttctttctt 180

tgcccgttct ctttacacat tcctaactga tacctccttg atgttaccga tctcaatcac 240

ctttttccat ttccgctttt ctccaactgt ctttttccct ccgtgcccc taactatcgc 300

cactcccatg agctggggcg cttggccgcc aaatgagcca cgctcctcct ggatctttta 360

aagactgctg ccagtttcgc tgct 384

<210> 9541

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-H3

<400> 9541

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ctgcatcttg ctactatcgc cttgatggca gagacaaaat acagcgggtg cgccttctac 120

agctaccaac gcaagctaca ctatagtagc atgtaactac agctatagct accctcgcaa 180  
 ctgctactgc aactccgacg ttaaaccagag gaactaatgc gaaaaccctg cgcggtcaaa 240  
 ttatactgaa cgctaacgag atgcccaccc tattacatag ggttt 285

<210> 9542  
 <211> 392  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-H5  
 <400> 9542

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 ccttggtggg aagggatggc gtcggaggtg gaggacgacg cggcgggtgcc ggcgcgcgcc 120  
 ctggtcgcca atggtgcagc cgacgtccgc cggaggaggg atcaggctaa ggcgattttg 180  
 tccaagcagg ccgtcaagat cgccaccaag gccgagcagc acgagcgctt catctttaag 240  
 gtcatttccc cgacctgcc tccgtttaat ctctttatta ccgcctttct tgtgcagttg 300  
 acgtccacaa atcttgccgc tcccgtgctc cctttctttt gtggagggtca ttgtgtgatg 360  
 taataagtac ctgcacattt attggtcgca ct 392

<210> 9543  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-H7  
 <400> 9543

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcaa ggcacagcag ctgcagc 337

<210> 9544



<211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H8  
  
 <400> 9544  
  
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 catgccctgc ccctgcacgg tgctgcactg ctagtactgc gctggcgccg gcctgactac 180  
 catgatggac gcctgcagtc tgtaccata cacgtagtac ctgatgcagc ctcagtgcag 240  
 ccctctgacc gcggcgcact actacaccag ccgtgggtcag tcaaccgcca tgttccatac 300  
 gtcgccggga cagttctgtc cacaccata 329

<210> 9545  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H9  
  
 <400> 9545  
  
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 cgaattcatc caaaaccaac ttcttgatcc tcgtacacc atgggacgca tagtcagtac 180  
 ggctgattat gcttacagaa tatcagatct aggagtggct atgaattgat cactgtgtta 240  
 tgaacattaa catcctatgc actatgtgca acagatcgat gatcatagac tcaatgcgat 300  
 caacatctac aagac 315

<210> 9546  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-A1  
  
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atttgatcat taccagcttc tgcaatatgc tctagagagc ctggtttgta caaataaagg 240  
gagaacaggc agatttttgt acagcctgat ggcatagcgt tagccattgt atcatataca 300  
aggactggcc cgagcgaata cgctcctgga gtccttttgc acaacgagag caccacagga 360  
tgcattcggt tgtgattgtc tgcaatagaa attgcgatgc ttccaaattt tccagaccgc 420  
cagcg 425

<210> 9547

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G5

<400> 9547

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gactccaaga aggtgacccc tgagggtgatt gctgagtaca ccgtccgtac cctccagagg 180  
accgtccctg ctgctgtgcc tgctgttgct ttcctctctg gtggacagag cgaggaggag 240  
gccaccogca acctcaatgc catgaacaag ctcagcacca agaagccgtg gtcctgtctc 300  
ttctccttcg gccgtgccct tcaagcgagc acctcaagg cctgggctgg caagggtggaa 360  
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<210> 9548

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E8

<400> 9548

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gaagaagggc gcggccgggc gcaaggccgg cgggcccagg aagaagtcgg tgacgaggtc 180

cgccaaggcc gggctgcagt tccccgtcgg ccgcatcggg cggatatctga agaagggccg 240  
gtacgcgcag cgcgtcggca cgggcgcccc cgtctacctg gccgccgtcc tcgagtacct 300  
ggccgccgag gtgctggagc tggccggcaa cgctgccaa gacaacaaga 350

<210> 9549  
<211> 316  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-F1  
  
<400> 9549

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gccttattag actggtaata cactcaactg aatgatgtcc agttccatca acaaggcttc 180  
accgagactg tcgagtgact gatcacgac atgttttttt tttcacagtt tgcttctgtg 240  
cagttgccta ataaacccat tcgttgtaaa caagccagtt ctaactttaa aaaaaagggc 300  
ctgtgcatgg cgctct 316

<210> 9550  
<211> 423  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-F10  
  
<400> 9550

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aggctgcgag cggcgtgca ggaggcgcga cgcgggcact ttcggactgt ggtgctgtca 360  
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ctg 423

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 <211> 258  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-F11  
  
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 cgcgattcca ctatcagc 258

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 <213> Zea mays  
  
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<210> 9553  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-F2  
  
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ttgtaccgca agatcatgtc tgggtgcacg gcgataatat ctttgcttct catgattcca 180  
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<211> 293  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-F3  
  
<400> 9554

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tgagcttgct atgtcgacaa caagactgtc tgctaattgca gcgaatacat acgatgctgc 180  
attgtacgca taggccgatg ctgctatatc cataaacgcg gacactttct gtgtactgtt 240  
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<211> 374  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-F4  
  
<400> 9555

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ataacatcag ggcacaacaa ctacaacaac ttgcgctagc aaaccttgct gcctactctc 360  
agcaacagca gttt 374

<210> 9556  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F5

<400> 9556

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cggcggcgcc ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc 300  
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<210> 9557

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F6

<400> 9557

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cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata gtttcaatat 180  
gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca agcaacatac 240  
ctttatcgcc cttgttgttt caacaatcgc cagccctatc tttggtgcaa tcattggtac 300  
aaaccatcat ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac caagtagctc 360  
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<210> 9558

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F8

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 cacttcagtg acagtgatac ttgtttatta tggaaagttg ttgataatta gcagttgtca 240  
 aattattcat tgggatcacc gcagcttttag gatataactc cttttttttc tggagattat 300  
 gaatagccac tcaccatggc cacttgatat ctttcatact tgaattgtca gacttcataa 360  
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<210> 9559

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F9

<400> 9559

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 tcttaccagc gtggccttca gtatgtagaa aacctaatca ttcaacacct acaggatcca 120  
 tcatgcaagc acagcatgca tcttaccttt atgcaccctt gatcctccaa caatgataat 180  
 ccgtatcaca tcagtcacct atgctgcatt aattggcaca gatcatgatg gcacaacatc 240  
 tacaacatct cgagctagct caccttgctg tctacactca gctacagcag ttacctgaga 300  
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<210> 9560

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G10

<400> 9560

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccagc tgcgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccg cgtactgccg 300

gtgcacggcg ctgagcatcc tcatggactg cgcgatcccg ccggtcccgg acgcgcagct 360  
ggagggccgc ctagaggacc tgaccggctg cccgcgggag gtgcataggg gattcgccgc 420  
caccctc 427

<210> 9561  
<211> 337  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-043-Q1-K1-G12  
<400> 9561

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agtcgggcag catggacgag gctgcctaag cgtgcgcaat cgtctcttgg acagcctact 120  
gtccacgacc gctgacgcaa tctccaagtt cgacagcata gccgatagga tcagcatctt 180  
ctgctcgtcc gacgaggctg cggaggcctc tatctctacc ttgaagaacc ttacttgtga 240  
ctggtaactc gcagctatgc tgtaccacag cttatcgtaa cactactccg cgcagtctct 300  
cagagcgatc aatgaggacg taagcacgct tgtcttc 337

<210> 9562  
<211> 328  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-043-Q1-K1-G2  
<400> 9562

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gtgaagcttg cggcggttttc ggcagcttct gccgtcaggc gcgcaccttc gtcgccatca 120  
ccttcggcac cgtcctctgt ttcattcctc tgtccctcat ctctctgtac cgccttttca 180  
gcgcctacga ggccgccccg tcgtcggcgc tcggcagcaa gggcgctcag atcgccgtct 240  
acccgcgctg aagccgctgg aggaaggcct cgttgcaaatt ctctggtatg cgtagtcgat 300  
catgtaataa tggcttatcg catatata 328

<210> 9563  
<211> 415  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D11

<400> 9563

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tagggctcca ctgggtgccct gaactttgct ccggcgtaga ccgcggcatc accgagctcc 180

tcctcgatcc tgagcagctg gttgtatttg gccaggcgct cagaccggca aggagctccc 240

gtcttgattt ggcccgtaga caggccaact gagaggtcag caatgaaggt gtcctctgtc 300

tcgccactcc tgtggcttgc catcactccc catccggcgc gcttggacat cctgacagct 360

tcgatactct cggtcacaga cccgatttgg ttcacettca agaggagagc attgc 415

<210> 9564

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D12

<400> 9564

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cttgaagagg ctgcccctgg gcttatttta cggaagagaa agtctgctga cgagtcagtt 120

gccagcgagg caaattcatc ttcggttgaa agtgaagcat cagttgctga tgctgtggcc 180

cttctgctta agcataaacg tgggtctacaa acctcagaag aaatggagaa tgagactgaa 240

ccatattcta gcaagaccga agggaagaag tcgaaacaaa aacgtgtatt gggcccagca 300

agaccagatt tccttgaagc cagacaagac tctgaaacat ggggtgccacc tgaagggtcaa 360

actggtgatg ggcgcactgc attgaatgac cgtttgggtt attgaaaagc tcttccagca 420

acagtt 426

<210> 9565

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D7

<400> 9565

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cgtcagcacg tccatggagc aagccgacat gccagacgtt ccccgcgtaa agctaggcat 120  
acagcggcctt gaggtgtcta agctggcggtt cggctgcatg gggctaacgg gcacttacia 180  
cacgccactc ggcgacgagg ccatggccga cgtcttcgcg cactcgtttc gtcgagggat 240  
cacctgttta gacacgtgct attcctacgg gccacggacc aactagaccc tactggggaa 300  
ggcgctcaag catctgccga gggagcaatt gcatgttgcc accaagttcg tgataa 356

<210> 9566

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D8

<400> 9566

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gcaagcattg ctgatgctgc atgtgtgtgt gcgatcagtg actggctgct gggtcataga 120  
acatgaactg aaagaaggat gattaagggc tttgtcaatc gccgttacia ctgcatccca 180  
tgcgcatgct cgcttagtag attgggtata atttggtctg gcacaccag catcattatg 240  
tgctgatctg ttatccttta ctagctaggt cgcccgatat atctctacct ttttggggaa 300  
tggtctactg tgtactgaaa 320

<210> 9567

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D9

<400> 9567

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ggctgccagc gccagcgccg ggacctctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240

gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360  
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcc 416

<210> 9568  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E10

<400> 9568

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 cttgcccttt ttgtgagtgc aacaaatgcg ttcattattc cacaatgctc acttgctccg 120  
 agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttcga acacccatct 180  
 gtgcaagcct ataggctaca acaagcgctt gcggcgagcg tcttaaaaca accaattgcc 240  
 caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcagcagcaa 300  
 caagcactga tcc 313

<210> 9569  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E11

<400> 9569

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 ttgttcgctc tcttagctct ttgtgcaagc gccactagtg cgacccatat tccagggcac 120  
 ttgccaccag tcatgccatt gggtagcatg aaccatgca tgcagtactg catgatgcaa 180  
 caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240  
 ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacaat gatgtcacca 300  
 ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaattgatg 360  
 atgccacaat gtcactgcga cgccgtctcg cagattatgc tgcaacagca gttaccattc 420

<210> 9570

<211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-E12  
  
 <400> 9570  
  
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 gctcaagctg aaccctacc tcggcactgc ccggaagatg gccacccttg ctgaggctgc 120  
 ccgagtcaag gcccggaagg agaagcttga ttccaagagg accaagctta cctcggagga 180  
 gactgccaag gtcaaggctg ccggcaaggc gtggtacaag accatgatct cggacagtga 240  
 ctacaccgag tttgagaact tcaccaagtg gctcggagtg acgcagtga ggggcctttg 300  
 agacctagtt aagttttgat tagttgtgtc gctgaacttt gtattgagac gaaatagtat 360  
 tttatcaatc tgtcttatcc tgcattctca caacaagtta cctatct 407

<210> 9571  
 <211> 149  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-E3  
  
 <400> 9571  
  
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 gcggggttaga gcagaagggg aatttggaat tgctggaaca aaggaaggca atggagaaga 120  
 atatgctttc tatggcacia gagatcgag 149

<210> 9572  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-E5  
  
 <400> 9572  
  
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 ggcttccaag acattatccc tccttgcgct tcttgccctt tttgtgagtg caacaaatgc 120  
 gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagt tcctccctcc 180

agttacttca atgggcttcg aacacccagc tgtgcaagcc tataggctac aacaagcgct 240  
 tgcggcgagc gtcttagaac aaccaattgc ccaattacaa caacaatcct tagcacatct 300  
 aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag ccgtggtgaa 360  
 cccta 365

<210> 9573  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-E6  
 <400> 9573

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 acgactgtga gccgtgcgtc cctcgaccag aaactcgccc tcgccaagcg ctgctcccga 180  
 gagggcagccc tcgccggagc caaggcggca gccgtggcga ctatcgccctc cgcgatcccc 240  
 accctggcca gcgtgcggat gctgccatgg gccaaaggcca acatcaaccc caccggccag 300  
 gcgctcctcg tctacacggt ggctgggatg gcttacttca tcgccgccga taagaagatc 360  
 ctgtcgct 368

<210> 9574  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-B4  
 <400> 9574

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 gacctgtagg agaagctcga tgccgtggga cagagaacc ggttcctgtc ctctgagtcc 120  
 cggcgccctc aggtcctcgt gtcccaggcc cgcgaggagg tcgccgctgc cgagcaagtc 180  
 gccgtcacca acgagagcga ggccctccacg ctccgcgcct aggtcgagcg tctccagggc 240  
 cttctagccg cagagaaggc cagccatgat gaggagatgc gcatgggcgc atggctcggg 300  
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<210> 9575  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B5

<400> 9575

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 tcgactttta ttccacaatg ctcaacaaca tacctctctc cggtgacagc cgcgggattt 180  
 caatacccaa ctatacaatc ctacatggta caagaggcca tccaagcaag catcttacgg 240  
 tcattagcat taaccctgca acaaccatat gctctattgc aacagccatc cttaatgcat 300  
 ctgtatctcc aaagaatcgc ggcacaacaa ctacaacaac agttgctacc aacaatcaat 360  
 caagtag 367

<210> 9576  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B7

<400> 9576

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 aggaggggac gaaggtctcc ctggagctct actacgagtc gttgtgcccg tactgctcgc 180  
 ggttcatcgt caaccgtctc gcggggatct tcgaggacgg gctcatcgac tccgtccacc 240  
 tccggctcgt cactacggc aacgcgcacg tcgcatccaa cagcaagatc tcttgccagc 300  
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 atccggatgt gcatttcagc ttcactact gcggtg 395

<210> 9577  
 <211> 127  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B9

<400> 9577

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agcttgcaaa cctgggtctca gcactgtaat tatttcttct gttctaccac atcttttggt 120  
tggttggt 127

<210> 9578

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C1

<400> 9578

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gacattacat caagcactga cagcactact atataagttt atcatgcaag actattgcat 180  
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agggcaacct gagctcttta ccagcagctt caaccaagtt ttacgtgcac acaggattgg 300  
ctgacagaat tagcccaacg gacagctact ggaagtagga tccctgaagg ttatatcgat 360  
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<210> 9579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-C11

<400> 9579

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tgcaagcctc ggctccgctc ccaggatcat ttccaaggta gccaacgatg ctcaaggaag 180  
aagcatectc agcgaactcc aaactgatgg cgtggacaca tcctacatcc tggtcgcaga 240  
gaacgggaac tcacccttca cctacataat agttgatgaa cagacgaaaa ctctacatg 300

tatacacact cctggttctc ctcccatggt gccagaagag ctacaaaagg caaacttgtc 360  
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<210> 9580  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-043-Q1-K1-C12

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gttcgttgcc aaatgaactt caagcggctt tccctgactg acatcaagat tgacattaaa 240  
cgtgtcccaa agaagactac actgatcaag gcaatggagg aagctgatgt gaaaagcaag 300  
tgggagaata gtcctatggg caagaagctg attgttcaga agaggagagc atcactcaat 360  
gactntgaca ggttcaaggt catgttggcg aagatcaaga agggcgggtgc cattaggcaa 420  
gagctt 426

<210> 9581  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 9581

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attgttgcta gtgagaaagc ttcattgcag atgtctggca atgatgggaa gcgtcctcaa 180  
aaccaagagg aggagactag actggcaatt cctggctatg tgactccatt gaaagctgga 240  
gaggttatgg aatcaaccga aggaatgatg aacaatgaac tggtggcggt agtccttgca 300  
gatggaagca tgtataggga ggaagatgga ttgctgccac agtggttttag tgaagcaatg 360



tctggccccc tgctgagctc angaatgtgc actgaagttt tccagttcga tgtgttccca 420  
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<210> 9582  
<211> 371  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-C4  
  
<400> 9582

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tccgtgctcg cggctgccag cgccagcgcc gggacctcct gcgtgccggg gtgggccatc 180  
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ccgcgcctcc cgtggccgga gctgaagagg agatgctgcc gggagctggc ggacatcccg 300  
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<210> 9583  
<211> 173  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-043-Q1-K1-C5  
  
<400> 9583

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ttccacttta agtcgtaaga tgggatgaaa aacatagtct ctatgannat tag 173

<210> 9584  
<211> 409  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-C6  
  
<400> 9584

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 ccgccactag tgctacccat atgccagggc acttgtcacc actactgatg ccattggcta 120  
 ccatgaaccc atggatgcag tactgcatga agcatcaggg ggttgccaac ttgctagcgt 180  
 ggccgaccct gatgctgcag caactgttgg cctcaccgct tcagccgtgc cagatgccaa 240  
 tgatgatgcc aggtatgatg ccaccgatga caatgatgcc gatgccgaat atgatgccat 300  
 cgatgatggt gccgactatg atgtcaccaa taacgatagc tagtatgatg ccaccgatga 360  
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<210> 9585  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-C7  
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 gggagcattg aggggtcatt tggaactttc aatgtgaaca acgtccaagt gtttgctggc 180  
 tatgttctac atattggctc atttcaaaaa ggttcgaagg ttatgtctct tggagatagt 240  
 gtgatatgca aggttgatta caaccggctc aacttgattg ctccaaatca tacgtgtacc 300  
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<210> 9586  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-043-Q1-K1-C8  
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 gtggtgcgga ggcgcggctg ctctgctcg tcgcgacatc gaatttcagc gccgcccgcg 180  
 cgatccttgg tctcttcgcc cgtgaggaga ggcgcggcaa tggctgggaa aggcggggccg 240

accaacctgg agaaggagca gatgtttggg atggcggaga aggagatgga gtacaggggtt 300  
 gatcttttca acaggcttac aaagacctgt tttgagaagt gcgttgaaaa aaggtataaa 360  
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<210> 9587

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B3

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 gcgacgatca agaactacgg catctggctg cgctaccaga gcagaaccgg ctaccacatc 120  
 atgtacaagg agtaccgcga cacaaccctg aacggcgctg tagaacagat gtacaatgag 180  
 atggctttct gccaccgcgt gaggtcccc tgcatccaga tcatcaagac cgtcacgggtg 240  
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<210> 9588

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H9

<400> 9588

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 gaaaccggca tccctggctg tgtgtttgtc cacatgagtg gcttcattgg gggcaacatg 180  
 acctacgagg gagcattgga aatggcgaga gctgctctga aattctgatt caaccaaagc 240  
 atattacccg tgttaccatt atatcagtaa acacatcagt aacacatgat gcagttgcgc 300  
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<210> 9589

<211> 398

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 tcattattcc acaatgctca cttgctccta gtgccattat accacagtcc ctccgaccag 180  
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 cggcgagcgt cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa 300  
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 atatcaaggg aggaagctgt catgcacata aaagctgctg tagatgctag gaaagagagt 180  
 ggctctgaca ttgttattgt agcaaggaca gattctcgcc aagctatttc tcatgatgaa 240  
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<210> 9591  
 <211> 159  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A4

<400> 9592

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cacgcataca agcggcagct gcggctgcca gccaccgtcg tcggttcac taccgtcgtc 180

ggtgcatctg ccacctgcgg ttacacctgcc acctactgtg catctgccac cgtcgggtcca 240

cctgccgcgg ccgggtccacc tgccaccgac ggtccatgtg ccgacgcgg ttcactctgcc 300

gtcgacacca tgccactacc ctactcaacc gtcccggcct cagcctcatc cccagccaca 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A5

<400> 9593

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agggcacatc tgggttcggt tgggtgttcg ggaagccttg ccctccaatc tatgtacact 180

ttatcaggtg gtcagaagag tagggttgca ttcgcgaaaa taaccttcaa gaagccgcac 240

atcattctcc ttgacgagcc ttctaaccat cttgatctgg acgtgttgga ggcgctcatc 300

caagggttac tcatttttca gggaaggggtg ctgatgggtg gtcacgatga gcatcttacc 360

actggaagcg tggacgagct ttgggtggtg t 391

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-A6  
  
<400> 9594

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aactaataag caatctaaaa gagggcccca ccaatgatgt gtcgttggtg ggaggccgct 180  
gggatctgtc aaagcaagtt ggacaaaggg caacaattgt tgtaacttgt aagaggggtg 240  
cggggttagc cgcaaactgc tgtagaaaag gcatcaactg tctctgtgtc aagaaagaaa 300  
cacggtttgc tgcagctagc ttgctaaatg gcaataagat ttgctgctgc aaataagcag 360  
ccggggttcag tgcggccaat tgggttaaag gaa 393

<210> 9595  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-043-Q1-K1-A7  
  
<400> 9595

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ttcattattc cacagtgtc acttgctcct agtgccagta ttccacagtt cctcccacca 180  
gttacttcaa tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt 240  
gctgcgagcg cttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta 300  
accctacaaa ccattgcaac gcaacaacaa caacgacagt ttctgacatc actgagccac 360  
ctatccgtgg tgaacctgt cacctacttg caacagcagc tgct 404

<210> 9596  
<211> 449  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A8

<400> 9596

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caagaatata ttctacttgc ttatatggag gtgctccaaa aggcctcag ctaacacagt 120  
tgagagcgtg tgctgacata gttgtcgcaa ctctggggag attaaatgac attttgga 180  
tgaatagagt gagcctgcac caagtatcat atcttgcct tgatgaagcc gaccgtatgc 240  
ttgatatggg atttgagcca cacataacga aaattgtgaa acaaatacca ccgaaacggc 300  
aaactcttat gtatactgcc acatggccaa cagaggctag aacaatagcg tctgatttac 360  
tggttaaccc agttcaagtt aacattggaa aactgatca actagctgca aataagtcaa 420  
ttacacagca tgtggaacgt atcccacat 449

<210> 9597

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-A9

<400> 9597

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tatactgact ttgacaagg cgtagctat gaagcctgac tacaccgacg caaaagctga 120  
ccgtgaaact gctgctcgcc tagtcaagaa acgaggacag ctgcatacgt caggtttaag 180  
tgctaacaaa agacgcttca cagttgggga gtacccaaag gagggagggtg cagaggggtga 240  
agaaaaaggg aaagaaacag ccgagcaact ccaaagatc acccatgaaa attagctaaa 300  
ttaactgatt ttgatactgt gtaaaataga tattacaaaa aaatattaca ttagtggttg 360  
tcacctgctt taattcgtaa agggaacat aacacggcaa tacaattaac gata 414

<210> 9598

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B11

<400> 9598

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ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180  
atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240  
gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg 300  
cagtcattgg taaaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttcc 416

<210> 9599

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B12

<400> 9599

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ttcaagaagt ggggaggtat agaatttcct ctaccttttg gaagagtact cagccctaca 180  
gaaagtttca tccatgaact agatgagaag acaagtgcct ctctgaagtt cacggttttg 240  
aacccgaaag gtcgcatctg gaccatggtc gctgggtggg gtgctagtgt catttatgct 300  
gatacagttg gagacttggg atatgcatca gagcttggaa actatgcaga gtatagtgg 360  
gtctctaattg aagaagaagt tctgaattat tct 393

<210> 9600

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H7

<400> 9600

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cgagatgctg ataccatgaa ctttgctgac attgagaaag ggataaacia ccttgcaaag 180  
aaggcaaag agggggcgct ctgattgat gacatggcag gaggaacatt cactatctcc 240  
aatggtggtg tctatggaag cctcctcagc acacctatca tcaaccgccc acagtcgtca 300  
attctgggga tgcattccat tgtgcaacgc cctgtggttg tgaatggtga cattctcgca 360  
aggccaatga tgttccttgc gctgacatat gaccacaggc tgatcgatgg cag 413

<210> 9601

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G10

<400> 9601

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ataccacact tttaattcct ctaaccaaca ttataacatc ctctactata caacacactc 180  
atctaacata cctctaacta ttacacactc atacttcttt atatccataa tccttcctac 240  
cacaataact cctaaacata attacactcc taaaaacatt agaacctcat ata 293

<210> 9602

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G4

<400> 9602

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gatggctatg ataagcagac cgaggatttt caaccattat gcaccatagg tcctggattt 120  
tctgagcaac agcttgaaga acgttctgag agccttcgaa gtaaagtgat agaaaaacca 180  
aaggcatact atagatttgg cgacacaatg aaccccgatg tgtggtttga gccatcagag 240  
gtctgggagg tcaaagctgc cgatctgagc ataagccctg tacatcgtgc tgccaatggt 300  
atagtcgac caaataaggt ctgtagttct tttttgcatt gccattctc cccatctcga 360  
ttgtatactt ctggtatagt atgttggaag gctaagtctg aaatcgaacc aaggatatctc 420

tctaagattc cctc

434

<210> 9603

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-G5

<400> 9603

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tcaccacagc aaggctcgtct caggctacct ctttgcctaa cgactcggat gagaacgagt 120  
gcgtctggga cgcttcgctc catgcgagt gcaatgttag cctcatagt agtattgaca 180  
gcatgggtgt cgtcactgct atgagcactg tcaacagctg cagcagcaca tatacaagcg 240  
cgaccatagc tggatgaagca atgctcaatg ctgagaggaa ctgtgagagt gtcaagggtg 300  
ttcgaagtga cttactagaa agcgactag ctagcatgag tccagcaagt gatagcactg 360  
gtgatagtga tgacagcagc tggatccaca tcaactggacg tgccagtang cctcacaggg 420  
ggaatga 427

<210> 9604

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G6

<400> 9604

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ataccacatc attatcctct taggctacct ctcaacctca gcaatcgtat caaaactact 120  
acatctctca cactctccta tatcctactt tcaatcttaa tacctcataa taacattgac 180  
attctgtgtg tcaacactca tatgatcact cttacaagct ccaacaagca catctaaaat 240  
cgcatcttat aattatcaaa ccagttctca aagcatccat taactctatt actataaata 300  
cctttcgacc atacttacta tcaaatcatc aagctaccac aactacaaca acttata 357

<210> 9605

<211> 429

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-042-Q1-K1-G7

<400> 9605

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ctcacttgct cctagtgcc a ttattccaca gttcctccct ccagttactt caatgggctt  180
cgaacaccca gctgtgcaag cctacaggct acaacaagcg cttgcggcga gcgtcttaca  240
acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac aaaccatcgc  300
aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg tgaaccctgt  360
cgnctacttg gcacagcagt tgcttgcac caaccactt gcttttgcac acatagttgc  420
ataccaaca                                     429
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 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-G9

<400> 9606

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tcctaagttg gaaaaggctc caaattctag ggttgctgac tctggtgtcc tgaggggaat  120
gaatttagaa gacatcagga aagctgggga gcggcttatt cttcagggtg gctgtaaaaa  180
tttctttcag aagattgtaa aaacaaggga gatcctcaat ttggatatcc atattctttc  240
ctactgctgg tgtgcagagc ttataagatc cgccttctca tcagccggtt gtctagatgg  300
tctgaacata catgcgaacg agttcgccct tgaggaatct gtttcaaccg gtgagattga  360
cagaaagatc cagtccccgc tagacaaggt tgagaagttc aagagcatca          410
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<210> 9607  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-H1

<400> 9607

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cgcacctggc tggcgtcgac tgccgcgtgg gactggcgag gtacgatgcc cagctcgggc 180  
tcgtggagtt cctcgtgccg gccgtgcacg cagccgggtg cgcgctcgcc gccgccggcc 240  
tggcgctgct ggcctncccc cactcccact ccagtcacca gcagcggcac gcggcgacca 300  
tgctgctcgt cgcggcgctg ctgtgggtgc tgggctccgt gctcaactcc tgccaggtgt 360  
acgagcgcgc cga 373

<210> 9608  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ctcctataca gcataaatga attatattgc ttacctgtt ggtagaaaga accttgaaag 180  
atagggaaag tgctgttttt tgtcaaagcg gttcctgtgc tgtataacat gttgcatgag 240  
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tgagtcttct tcattggtct attgtgtaac atgtacacag gtttgtggtt cgtcttgtct 360  
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ata 423

<210> 9609  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H4

<400> 9609

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ggcatggcat atccatccaa attccaaaat aatgttctga tactatgttt tactgtgtat 180

gcccataaac cattgatgga taaaaaaaaa caaaagtaaa acgtatacag caacagaaaa 240

aaatgcctaa ccatac 255

<210> 9610

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H5

<400> 9610

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ccacggctgc tccatctgga tctttggatc ccaactgcttc caactgcata aaagaagcag 180

aagaaaatga gottgaattt gccttggcag atttcttagg acggatccat agaaattgca 240

acaataatgg ggagttatgt acggagatga aagccctaata ccaaacaag attgcagagc 300

tagataatcc tccgtgcaca tttgcttatg agcagcaaac ttcacggggg gacgaatatg 360

atactgctgg tggcaaa 377

<210> 9611

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H6

<400> 9611

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ggtgcagcag ctgctgcagg acttcttcaa cggaaaggaa ttgtgcaaga gcacaaacc 180

cgacgaggct gtggcgtacg gcgccgtgt ccaggctgcc atcctcagcg gcgagggcaa 240

cgaaaaggta caagatctgc tctgtctcga cgtcacgcca ctgtctctcg gcttggagac 300  
tgcaagtggc gtcattgactg tgctgatccc gacgaacacc accatcccga ccaagaagga 360  
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tgagcgc 427

<210> 9612  
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<212> DNA  
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<223> unsure at all n locations  
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gggcacgtgg tggaggtgcc gccggagctg gtggcgagcg gcaaccggac gccgtcgccc 180  
aagacgaaag cgtcgcagct ggtggggcgc tttctggccg cgtccgagcc ggtcgtgtcc 240  
gtgcagctcg gcgaccacgg ncacctcgcc tactcccaca ccaaccaggc gtcctccgg 300  
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ctgggtcg 368

<210> 9613  
<211> 317  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-E4  
<400> 9613

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tgtgaaaggt gccacttaag gtggcttctt taccggttgt tggtcgtgcc aacaaccttg 120  
tggttttgtt aagtgggaag caaatccctg ctgttggtgt gagccttga attgaaagag 180  
tctttgcaat catggagcag caggagaaaag aaagaaatga gaagatccgg cctacaaaga 240  
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agctgtggaa tgcttgg 317

<210> 9614  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E5

<400> 9614

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tccccatacc ttgcatcaat gatagcttca gtatgtgaaa acccagctct tcaaccctat 180
aggctacaac aagcaatcgc agctagcaac atacctttat cacccttggt tcaacaatcg 240
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ctcgtgctac ctgtgatc 318
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 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 9615

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cctgctctcc gtgctcgcgg ctgccagcgc cagcgccggg acctcctgcg tgccgggggtg 180
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gc 422
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<210> 9616  
 <211> 429  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E8

<400> 9616

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gacaagtctg cccgatcgga ggagttccgc gccctcaaca tcgggtttat gctcgacgag 120  
gggcaggcgt cgccgacgga cgtgttcaga gtcttttacg cggacaggct ggtgtggagg 180  
ctcgtcgtga aggcggcggg ggcgccaggg catgggtcga ggatgttgga cggcgccgcc 240  
gttgacaatt tgatggattg cgtggagacc atcgtctcgt tcagggatgc gcagttcagg 300  
atggtgaagt ccggggagaa gggtcctggg gaggtggtct cagtcaaccc tgtgtacatg 360  
aaggccggca taccaagccc cacgggtttc gtgatgaaca tgcaaccttc agaagcggag 420  
gtcggcttt 429

<210> 9617

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E9

<400> 9617

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tcccgaatg ctcaaaagct cctatagctt ctcttcttcc ccataacctc tcaccagcgt 180  
tgtcttcagt atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcacag 240  
caggcatctt acctttatca cccttggttc tccaacaatc atcagcccta ttacatcaat 300  
tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactacaa caactcgtgc 360  
tagcaaacct tgctgcctac gctcagcaac agca 394

<210> 9618

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F1



<400> 9618

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aaagaatata aaacataaaa aaaaaaatgg ctgccatttt tcaggatcca agtttaacta 120

cccttgattg caaagtacta actcttcata atcgtaccct aaattaactt cactgcccgt 180

catttaacaa cttcgggact gagaaaacct tggcggtttcc aaaattaatc tccttgcaagt 240

aatccccct ttctccatat gg 262

<210> 9619

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F2

<400> 9619

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tttggtcccc aaaacccaaa ttttcttcca ttaattactt gagcccttga cccccaccga 120

acccggtaca aagccaagaa cggggctgct gggcgcaagg ctggcgggcc caggaagaag 180

tcggtgtcgc ggtccctcaa agcccggctg cagttccccg ttggccggat cgggcgctac 240

ctcaagaagg gccggtacgc ccaacgcgtg ggcaccggcg cccccgtcta 290

<210> 9620

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F3

<400> 9620

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ccgggagccc atacgcaaga actgaagctt tgacgcgcaa ccccaaaact tgcgcgcgcc 120

cttttccctc cgcggcgtca tcttggaaag ctctccgac caagatgtat aagctgggaa 180

gaggaaaccg cgacaagtg cagcagttca tgaccattac cggcgccagt gagaaggttg 240

cccttcaggc actgaaagct agtgattggc acttggaaag agcttttgac ttcttctata 300

gccaacctca agtttctgtg gtcaatacgt cgcattctga agatattttc aacagatata 360

aagaacctga tgctgatatg ataatggtgg 390

<210> 9621  
<211> 218  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-042-Q1-K1-F4  
  
<400> 9621

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gaatctaatt tcagctgttg catggttggt gcccttaagt tccggttttc cctttttaac 120  
aagtggccgt aaggttcatt tttttgaatt taaaaaaatt gctaaaggcc ggaattatta 180  
tggtttttta ctggaaaatt aaccttacct taaaaagg 218

<210> 9622  
<211> 394  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-042-Q1-K1-F5  
  
<400> 9622

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gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 120  
ggcccagtc cgcggcgcc gtggaggcgg cggcgggtggg tacggtggtg gccgtggagg 180  
cggcggctac agcggtggtg ggcgcgtga tggcggcggc ggctacggcg gtggcggcgg 240  
ctacggtggc ggcgcggt acggtggtgg tggcggcggc tacggcggtg gcaaccgtgg 300  
cggcggctac ggcaactccg acgggaactg gaggaactga gcggtggtgc ccgcgcggcc 360  
aagttatect gttegtgccc gtgatgttta ccct 394

<210> 9623  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-042-Q1-K1-F7  
  
<400> 9623

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gaaaataaaa aaaaaaaaaa aaagaaaaaa aaaaaaatga aaaaataaaa ctataaaaca 120  
aaaaaagaaa aaattaaaaa taaaaaaaaat acgacagaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaccaa ataattaaaa aattactaca aaataaatta atccaaaaaa aattagataa 240  
caatttaaaa ttaaaaataa aagaaaataa aatgaaattt taaattttaa atttctataa 300  
caaagaataa aaaaaaattt taattaatct aaagactaaa aaaccgggtt acctaataaa 360  
aaaaaacgta aaaataaaaa aaaatatggc ttaaaattaa atccggaata aaaaaatta 420  
ttcaaattaa atttaagaat 440

<210> 9624  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-F8  
<400> 9624

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cgtggtggtg gtaatgctgc agctagggca gttttctggc accctaggaa aggctcgtcc 180  
tacactctag ccttcgaaac agacagggac aggaatgctg cgattatgat tgctcgcaag 240  
ttcgcttcga attgcaatat cgctctcgtt ggcccaggcg accaaggcac ctgatgaagt 300  
gatcacgcta tgttttgacg gcgacaacag tacataatta gggcgtggat tggctgattg 360  
gggtggcgtg ttgtcttagt tttgtcgatt tgtgcttggt agggtagagg ttgtacacgg 420  
cgtgaggcat tgtttttggt t 441

<210> 9625  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-F9  
<400> 9625

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tggtagcttt ggcggagttg ctaaaatatt aggggggcta aatccagatt atggaaattc 120  
 tgcacaaaaa gtaatgttct attctgctag gggctctgac cctgaggaca atacactgtc 180  
 aaatgctgat atcttgaaac ccaatctagt agcacccgga aattcgattt ggggtgcttg 240  
 gagttcactt ggattggatt ctgctgaatt ttctggtgaa agtttcgcga tgctctctgg 300  
 cacaagtatg gctgcacccc atgttgctgg cctggctgct ctaatcaagc agaagtttcc 360  
 ttcttttagc ccagcagcta tagcttctgc attgtctaca accacaactc ttagtgacag 420  
 g 421

<210> 9626  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-E12  
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 aggcgagctc ggctccggtc acccgctgat ccacgcaacc atgtcgagga ggaagaccag 120  
 ggagcccaag gaggagaacg ttacccttgg acccactgtc cgtgaaggag agtttgtctt 180  
 tgggtgttgct cacatctttg catccttcaa tgacaccttc attcatgtca ctgatttgtc 240  
 tgggagggaa actttgggtc ggatcactgg tggcatgaag gttaaggctg atcgtgatga 300  
 gtctgtcct tatgtgcta tgcttctgc ccaagatgtt gcacagcgtt gcaaggagct 360  
 cggatatcaca gcgctgcaca ttaagcttcg tgccactgga ggcaacaaga ccaagacccc 420  
 t 421

<210> 9627  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-C6  
 <400> 9627

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caaccacagt tgttgcggtt ctaccagcac gctgcgccta acgctggcac cctcttataa 180  
 ctgcaacaat tgctgccatt caaccaactt gctttgacaa acctagcagt gttctaccaa 240  
 caacccatca ttggtggtgc cctcttttag atttcttatg agttatagtt caataataaa 300  
 gttttttgtc tgatgtttgt ggcttcccag aaataagaaa gtacatttct 350

<210> 9628

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C7

<400> 9628

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 aggtggcggg ggctacagcg acctagatcg ctggggcggg atgcacggcg aggcgcgaca 120  
 gcagcagaag catggcgcca tgatgacggc gctcaaggtc gcgacggccg cgacctacag 180  
 ctgctcgatg ctggtgctgt ccgggctgat cctgtgcggc accgagatcg cgcttacggg 240  
 ggccacatct gtgctggtga tct 263

<210> 9629

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C9

<400> 9629

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 tctaccacat caacctgtca ctaatcattg ctacttata taagaacata agtagtattt 120  
 gctattgtca agtgttgccc ttcttgatac aagttgtgtt ttcgtatcat tattattatg 180  
 cactgtcatc ttacgtgtat atctcgatg tgttattgtc aactttataa aagcacactc 240  
 tgtttgcta aaaaaaaaaa aataaataaa cctatatctg gtgcgtatat ttatacaaac 300  
 aatcaatgca ttaatatatt tatattaaat ttatatatat c 341

<210> 9630

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-D1

<400> 9630

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cgcagcagct gcagcaactc gtgctacctg tgatcaacca agtagctctg gcaaacccttt 120

ctccctactc tcagcaacaa caattttcttc cattcaacca actgtctaca ttgaaccgtg 180

ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 240

aacaacaact ttttccattt aaccaattgg ccgcactgaa ccccgctgct tatttgcagc 300

agcaaatact actaccattt agccagctag ctgcagcaag ccgtgcttcc ttcttgacac 360

agcaacag 368

<210> 9631

<211> 164

<212> DNA

<213> Zea mays

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<400> 9631

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cataaatctt aactattccc acctcatatt tagttttccaa attaacatca agcacattat 120

tactctactt catcactatc atctttcaac atattataga taat 164

<210> 9632

<211> 416

<212> DNA

<213> Zea mays

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<400> 9632

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aagatcgagg agcaaattgg gccaccttg aagctcagga tcctcatcgt ggccggcgcc 120

gtcgccgcgt ccctggctcg cacggcctca ggggcagagg gaccggcgcc cgctccgacg 180

tccgccgcg cgctcatggc cgcgccggcc gttgccgctg cgtccttcac cgcgcttgct 240

ttcggctacc tcttctgaac gccgtgaaca ttcacgcgta caccgtgttg cccagccga 300  
attgtttgcc tgctcagatt tttcttcttc tctgtctcgc tctcgtgttt tgggtgtgtat 360  
aggtttgtaa ttacgtgttc atttttttta ttgcgtgacc atggatctcg taatta 416

<210> 9633  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-D3  
<400> 9633

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agctcacttg aagggtggtg ccaagaaggt tgtcatctct gctcctagca aggatgcccc 180  
catgtttgtc gttggtgtca acgagaagga gtacaagtct gacattaaca ttgtctccaa 240  
tgctagctgc acaaccaact gccttgctcc tcttgctaag gtcataatg acaagttcgg 300  
tatcgttgag ggtctgatga ccactgtcca tgccatcact gctaccaga agactgttga 360  
tgggccctca tctaaggact ggaggggtgg aagggtgct agtttcaaca tcattcccag 420  
cagcactgga gct 433

<210> 9634  
<211> 138  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-D4  
<400> 9634

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cgttacactt gtcagtgtc taacgcccac tccttttgct ttcttacctt actttctcga 120  
cacgttcaac ggcttttc 138

<210> 9635  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D5

<400> 9635

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attatcatgt gtggtatgac caatactata tgcattggta taataaagtt ttgggtataa 180  
tgaatctatc ggccgcttga tgtctatgat ggacaaatca aaacttctcc tgtcaggcat 240  
gtaaatattt caaaatctct attcaggctc aaattcatag cacaaaaata gaaccaaca 300  
agaccagata tacttgaagc caaacaagac tctgaaacat gggtgcaacc tgaagggtcaa 360  
actggtgatg ggcgcactga attgaatga 389

<210> 9636

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D7

<400> 9636

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aggatatatg ttccttcaag atcgcattgt cttcaattac tggaaacctct tgaatgctga 180  
taaggctaag ctctggataa ccaaccagggt gaaggaatct tgctcggatg tgcctctaca 240  
tggtacaac attgagtgtt ttgtgaacca aggagatatg attaaaaagg cggatcatcaa 300  
ttgtccatct caatatcaag ataattacag gagaagtgtg cgtgaaaata atctgattcg 360  
ttgcaacagt gaaatatttt acgtacctca acggtacacc cgtgatttct cagatcttgt 420  
aaaaagtatt gggagctta 439

<210> 9637

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D8

<400> 9637



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 tggtcacgaa aagccagaag ttacagcagt atcaattgat ccaaattttt cttcttatct 180  
 ttttggcgag tatttatgta gtacgtcaga caagaaatta tctgaaggcg tctaccttgc 240  
 aaggaataag cggaaatatt cagataatga tgaaccttca gattttttga aggcaatgga 300  
 tggatatcaa gttgtgaatg gtctcgaatg caagatatcc tgcaagacct ctaagggtctc 360  
 gtatgtcctt gacactgaag atttcttgta ccggcttcgg aaga 404

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 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-042-Q1-K1-E1  
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 tgccccctgcg cggggctgca gggcttgtag ggcgctggcg ccggcctgac gacgatgatg 180  
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 caacagtgtt gccagcagca gatgaggatg atggacgtgc agtccgtcgc gcagcagctg 360  
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 ctgatgcagc agcagcag 438

<210> 9639  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-042-Q1-K1-E10  
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gcgcgcgggac ctccctgcgtg ccgggggtggg ccatcccgca caaccgctc ccgagctgcc 120  
gctggtacgt gaccagccgg acctgcggca tcgggccgcg cctcccgtag ccggagctga 180  
agaggagatg ctgccgggag ctggcggaca tcccggcgta ctgccggtgc acggcgctga 240  
gcaccccat ggacggcgcg atcccgccgg gcccgagcg gcagctggag ggccgcctag 300  
aggacctgcc gggctgccc cgtgaggtgc agaggggatt cc 342

<210> 9640

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E11

<400> 9640

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gatggaattg aattgggttg aataccaaat caggcatgat attgaaatga gatataattt 180  
caattctatt gtttggatgt cactgaattg gagtttggaa ttatgcggtc taattctagg 240  
caataccgag ggggtgagcg tttgtattgg aagagggggg ttctagttat agtctaattt 300  
cagggaattg ggctctgat tccaaatctc aattccacat gcaacgaatc atcataattt 360  
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<210> 9641

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A8

<400> 9641

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gctgtgggat accagccaac ccttgccact gatcttgag gactgcaaga gcgtattacg 120  
acaacaaaga agggttctat tacatctgtg caggccatct acgtgcctgc cgatgacttg 180  
acggatcctg ctctgctac tacctttgcc catcttgatg ctacaactgt gttgtcacga 240  
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ctttctcccc acgtgctggg tgaggatcac tacaacactg ctctggtgt gcagaagggt 360  
 cttcagaact acaaaaatct tcaggatatt attgctatct tgggtatgga tgagctcagt 420  
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<210> 9642

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A9

<400> 9642

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 accgccaag gggcccaggc cgttttgacg gcgacaggcc aaggtttggg gacagggatg 180  
 ggtaccgtgg tggctctcgt ggtgctcctg gtgactttgg tggcgataag agtggagctc 240  
 ctgctgagtt ccagccatca ttcaggaggc ctggctttgg gcgtgggtggc ggcagcggct 300  
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<210> 9643

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B1

<400> 9643

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 aacattgcc aactgactctt gggagactac agagcccggt tacagctcaa gaattcaaag 120  
 cttagcattg cacaattatg ctggtttggg ggaaggtttt gagttaatca tatctaaact 180  
 gagttgggt 189

<210> 9644

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B10

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atcatcaatt tcttccattc aaccaactgt ctacactgaa ccctgctgct tatttgcagc 180  
atcaactatt accatttagc cagctagcta ctgcctactc tcagcaacaa caacttcttc 240  
catttaacca attggccgca ctgaaccccg ctgcttattt gcagcagcaa atactactac 300  
catttagcca gctagctgca acaaaccgtg cttacttctt gacacagcaa cagttg 356

<210> 9645

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B2

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aaggcacctc gttttgaagc acattccaac caacaattct gccgatactt gttctacttg 180  
ggcaaaatta ggacaattca gttggagtag actgatgcta aagaaagcct tctgcaagct 240  
gctcgtgaag caccaacaac tgcccgtggt ttccggatcc agtgcaacaa atgggctatc 300  
atagtgaggc tgctgcttgg tgagattcca gagaggactt gtttcatgca gaaaggaatg 360  
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<210> 9646

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B3

<400> 9646

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aatgcttact tgc

133

<210> 9647

<211> 433

<212> DNA

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<223> Clone ID: LIB3059-042-Q1-K1-B6

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cgttcgagaa gtccaagggg cagcacattc tgcggaaccc ggcgctgggt gactccatcg 120

tctccaaggc cgggtctcaag cccaccgaca ccgtcctgga gatcggggccg gtcacaggaa 180

acctaccaa gcgcctcctc gaggctgggt tcaaggccgt cgtcgccgtc gagctcgacc 240

cgcgtatggt gctcgagctc aaccggcagt tccaggggca cctgctctcc tcgcgcctca 300

aggttatcca aggagatgtc ctcaaagtgt atctcgata ctttgatatt tgtgtggcag 360

acatcccgta ccagatctct tctccctta ctctcaagct tctgtcacac cgtacaattt 420

ttacgtgtgc tgt 433

<210> 9648

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-B7

<400> 9648

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tcgcttcttc ggtggcctca agtccgggtg caatgcttat gtgattgggt actctgcgaa 120

gcccgggcag aagtggcacg tctactacgc cgctgagcac cctgaggagc ctgttggttac 180

tctagagatg tgcattgact ggctggacaa gaagaaagct tctgtcttct tcaagaccac 240

tgctgatggt tactcgctgt gcgccaagga gatgaccaag ctctctggta tctcggacat 300

catcccagag atggagatct gtgacttcga cttcgagccc ttgggctact ccatgaatgc 360

tgntcatggc cctgctttgt c 381

<210> 9649  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-B8  
  
 <400> 9649  
  
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 gtagcaacaa cagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 120  
 tttctgcatg tggtgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 180  
 cccttcttcc ccatacctt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 240  
 agccctatag gctccaacaa gcaatcgag caagcaacat acctttatca cccttggtgt 300  
 ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc agggcacagc 360  
 agctgcagca actcgtgcta 380

<210> 9650  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-B9  
  
 <400> 9650  
  
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 ccgcttctcc gccaggaagg cagttatcgt gcgcgtgttc gatgagggca cccgcgaccg 180  
 tccctatggc cactgcctcg tcgcaagcct cgccaagtac ccaaagaagg tgatccgcat 240  
 ggactccgtc aagaagactg cgaagaagtc gcgcgtcaag tgcttcatca agctcgtcaa 300  
 cttcactcac ctcatgccca cccgctacac cctcgacgtc gatttcaagg atgtcgccac 360  
 cgggtggccc gacgcactct ctaccacga caagaaggtc gccgcctgca agacggccaa 420  
 agcgcgcctt gaggagaggt tc 442

<210> 9651  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C11

<400> 9651

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tactcagcta gctgtggcaa accctgctgc ctacttgcaa caactacttc cattcaacca 180  
actgactgtg tcgaactctg ctgcgtacct acaacagcga caacagttac ttaatccact 240  
agcgggtggct aaccatttgg tcgctgcctt cctacagcag caacaattgc tgccatacaa 300  
ccagttctct ttgatgaacc ctgccttgct gtggcagcaa cccatcgttg gtggtgccat 360  
cttttagatt acatatgaga tgtactcgat aatggtgccc tcatagcggc atgtgt 416

<210> 9652

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-C12

<400> 9652

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tggttctctga caatgtgctt gcaagtgcct tgggtgtcaa ctctacaatt gctgcatcaa 180  
aggatcctgg aaggatatta ttacatattg taactgacgc gttgaattat cctgcaatga 240  
tgatgtggtt tctgacaaac ccaccaactc catcagtaat ccaaattccag agcctagatg 300  
atgtgaaatg gttgcctggg gatttcagtt ccagattcaa gctgaagggg gttcgggatc 360  
cgagatacac ttctgcactc aaccacttgc gttntatatt gccagaagtg tttccatctt 420  
tgag 424

<210> 9653

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C2

<400> 9653

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tttttttttt tttttttttt tttttaattt tttttattat ttttttattt ttttttttta 180

aaaaaaaaa aattttttttt tttttt 206

<210> 9654

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C3

<400> 9654

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ccttaccaag ggaaaaattg gttgtatcca aggatggcat tactgaccac caaattaatg 120

accagaaaag aaccccaaat tctgttgccc gaactaccgt gagccctcca aggtcaaagg 180

atgetgacat ggatgatgtg aaaccacaaa gcttaagctc tcggagctac ctgaaaagtg 240

ca 242

<210> 9655

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G9

<400> 9655

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cttttgagag aagattattt ggcacaaaat gcattcacc catatgataa gttctgcca 120

ttctacaaat ccgtttggat gatgogcaac attattcact tcaacacatt ggcaaatcaa 180

gctgtggagc gggcagctgg tactgacggc cataagataa catacagtgt cataaagcat 240

cggttggggg atctaattta tcccctaata tcccaaaaat tccaagattc cttcaaaagc 300

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aacct 365



<210> 9656  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-041-Q1-K1-H10  
  
 <400> 9656

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tggatcaaaa cttaaagaac acatgcagta ttgtgtggat caccctgaag aggttagcaa  120
gctggccaaa gtgaaggcgc aggtttcaga agtcaagggt gttatgatgg aaaacattga  180
aaaggttctg gatcgtggag agaagattga gctgcttgct gacaagaccg agaatcttcg  240
ctcacaggca caagatttca gacagcaggg aacaaatgtc aggagaaaga tgtgggttaca  300
gaacatgaaa atcaagctca tcgtcctggg aataatcatc gcactcattc tgatcattat  360
cctctctgtc tgtcatggtt tcaaatgcc a ttaagcacag accagaatac tgatacattc  420
a                                                                                   421
  
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<210> 9657  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-H11  
  
 <400> 9657

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tgcacagaaa tatccatacc ttgcatcaat gggcatttat gtcttcaaga aagatgcact  120
tttagacctt ctcaagtcaa aatataactca attacatgac tttggatctg aaatcctccc  180
aagagctgta ctagatcata gtgtgcaggc atgcattttt acgggctatt gggaggatgt  240
tggaacaatc aaatcattct ttgatgcaaa cttggccctc actgagcagc cttccaagtt  300
tgatttttac gatccaaaaa cacctttctt cactgcaccc cgatgcttgc cttcgacgca  360
attggacaag tgcaagatga aatatgcatt tatctcagat gggttgcttac tgagagaatg  420
caacatcgag cattctgtga ttggagtc                                                                                   448
  
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<210> 9658  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H12

<400> 9658

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 caatgtgagg tctggcgatg agcttcctga aaagtgcaga gaacttgcca ggcattttga 180  
 aaccagggga actcctgtga tgattggtgg tggagtcttg gcttacaccc ttttgggagt 240  
 tgattataac gaagccagtg gagattgtgc atttcttata cttgatccgc actacactgg 300  
 tactgacgat ctcaaaaaga ttgtaaatgg cggatggtgc ggatggaaga agtctgtcga 360  
 cagcaaaggc cgaagcttct ttttgaaaga caagttctac aaccttctac taccceaa 418

<210> 9659  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H4

<400> 9659

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 aaggaaaaaa aaatcttaat ttctttgcta acgaaaatgg ttggttcacg gcaatgcggc 180  
 cttcaggttc ttggcgaact cttctagctt cttcaatcct tcttctggag aagcagcttc 240  
 ctccaacgtc ttcactactg cgctaccgat aatcacacca tctgcgcccc atcctgcaat 300  
 ctgccggaca tgctctggag tcgacacacc aaagccaaca gccacgggtt tttctgtcac 360  
 cttcttgata tctgaagaa gagattgcac cttgccgctt acatttgcaac gtgtaccagt 420  
 aacttcaaca gtgcttataa gataaa 446

<210> 9660  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H5

<400> 9660

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ccaccagtca tgccattggg taccatgaac ccatgcatgc agtactgcat gatgcaacag 180  
gggcttgcca gcttgatggc gtgtccgtcc ctgatgctgc agcaactgtt ggccttaccg 240  
cttcagacga tgccagtgat gatgccacag atgatgacgc ctaacatgat gtcaccattg 300  
atgatgccga gcatgatgtc accaatgggc ttgccgagca tgatgtcgca aatgatgatg 360  
ccacaatgtc actgcgacgc cgtctcgcag attatgctgc aacagcagtt accattcatg 420  
ttcaaccc 428

<210> 9661

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H7

<400> 9661

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gttgagaagg aagtaactag gaagacttat gcatcagttg ttaaaatccc gagggaggac 180  
acacagccta cccagctgc cagaccctcc aagcccaacc taaatataaa gatggttcaa 240  
aatacggaga aaaatgtgtc ctccaccatcg aaacctgctc atgctactgt taatgcccta 300  
ccgggcgata aggggtgttc taaaaacaaa tcacctgatg agccagggtg ctcaattttt 360  
gttaagaatt taccttttga agcaactgtt gaaatggctg aacaagagt 409

<210> 9662

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-H8

<400> 9662

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tctccgggggt tcgggttcgt ggggtgagcgg atcgagatgg cggcgtcgga tgttgagtac 120  
cgctgcttcg tcggcggcct cgcttgggcc acggacgacc actccctcca caacgccttc 180  
agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc 240  
cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 300  
atgaacggca aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgcggc 360  
ggcgtggaa gcggcggcgg tgggtacggt ggt 393

<210> 9663

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A1

<400> 9663

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gggcttgatt aactggttga ctttcccaa cggcaacaag gcggccggcg ggccaaccgc 120  
aactacgtcc gcgacgcgcg ccgcatggcg gccaccccg cgcagctcaa ggagctcggc 180  
ggagcgtacg cgttcgtggt ggacatgccc gggctgagca cgggcgaca 229

<210> 9664

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-A10

<400> 9664

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gctaggatgg acgcgatata gactgctgaa gaaaggcatt tgttctcagt tggtttcaag 120  
aacactattg gagcaaagag agcatcatgg agaatcattt gtcacatga gcaaaaggtc 180  
gcagctgata gtcagactgg tgtgatgata gatgcctata tgaagaaagt tgaagaggaa 240  
ctaaggaagg ttgcgaatga agtattgtca gtcattgcta ttactgcct taccttgctc 300

agtacggntg aaaatatcgg attcttttat aagatgaaag gtgactacta ccgttacttg 360  
gctgaattta tcaactggaac tganaagaaa gctgcctctg atcagtcact ta 412

<210> 9665  
<211> 258  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A12

<400> 9665

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cgcttcacat taaagtaatc tatttgaact gtagtgttaa tctatagaga taaaagcagt 180  
gtaaaaatag tagaaatcgt tatggattaa agacagtcga cccagctctt gctagttgaa 240  
aagaaccag ctcttgcc 258

<210> 9666  
<211> 410  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-A2

<400> 9666

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tgatcaacaa aaccaaacca atccaaacca aatcatcttc ccaaagagtt gaggaactgc 180  
aatgatcaa ctctgagacc ttaaaggcca gaattatcaa ctctgagact ttgaaagcaa 240  
gaatggggca actgttggtt accacggaca tggatgttaa agtagaacc agttgacttt 300  
gcaatgtaca catttcttgt atcggctctt catttacgtc tgtattatcg cttttatgat 360  
tggatgatga tgttattctt gagagatgtt cgggtgtgtt gggggcgctt 410

<210> 9667  
<211> 381  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-042-Q1-K1-A3

<400> 9667

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ctcctatagc ttcccttctt ccccatatac tctcatcagc ggtgtcttca gtatgtgaaa 180  
acccaattct tcaaccctac aggatccaac aggcaatcgc agcaggcatc ttacctttat 240  
cacccttggt cctccaacaa ccgtcatccc tattacagca gttacctttg gtgcatttgt 300  
tggcacanaa catcagggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360  
actctcagca acagcagttt c 381

<210> 9668  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G8

<400> 9668

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cgcgctcgtg atggcagcag ccccgggcgc gtcgtcgtcc acgtccgggt cgccgggcgc 180  
cggcggggcg cggtagagga tcgtcgacac gacgctgacg aacgtgttcg tgggogagat 240  
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ggaggccgac ctcatcacgg accgcttcac cggccgctgc aagggtacg gattcgagac 360  
gttcccggag ccggacgcgg tgcagcacgc ggtgcaagac ctgaacccga cgatc 415

<210> 9669  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F2

<400> 9669

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 aaagtaaaaa caaaaaatTT aaaaaaaaaa aataaaaaata aaaaaaaaat aaaataaaaat 120  
 aaataaaaata ttaaaaaaaaa ttaaataaaaa ttaactaaaa ataaatttaa aaaaataaaaa 180  
 attgattaaa atattaaaat atccaaactt taatcaaatt gcataataat ccaattttca 240  
 aaaactggat taatatttga aaaagccttt aaaatatcaa ttttaaaa 288

<210> 9670  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-041-Q1-K1-F3  
  
 <400> 9670

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 agccacaccc atgcccggtg caacagccgc atccaagccc gtgccagctg caaggaacct 360  
 ggggcgttgg cagcaacccg atcctgggcc agtgcgtcga gtttctg 407

<210> 9671  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-F4  
  
 <400> 9671

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 caggcaacat acctttatcg cccttggtgt ttcaacaatc gccagcccta tctttggtgc 120  
 agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta cctctgatca 180  
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agctagctac tgctactct caacaacaac aactttcttc atttaaccaa ttggccgcac 360  
tgaacccccgc tgcttatttg cagcagcaaa tactactacc 400

<210> 9672  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F5

<400> 9672

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gtgttcatca atcgtctggc cacaatgaag tgaaatttca gtgcaaatta ataaagcact 180  
tttgtggctac tacaaggatg accgcgttct agatggaaca atcgatgctt tggaaagctt 240  
aataatgttt tatgtttgtg aataattccg tgtgttttcg ggtatgttgt gtaatactca 300  
atgtcaaadc ctatgcttaa tcgatgttgt ggtccatcct gttatcagca tggccaatta 360  
tatatggatg accgtcactg ctcagtcttt actcct 396

<210> 9673  
<211> 61  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F6

<400> 9673

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g 61

<210> 9674  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F7

<400> 9674

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gaagctcacc cattgagaat tgttccagta aatgataaca aaggcattgg aacaccggtc 180  
cgacaattcg ggagaaaaca gggaaagcct gagtaacctt ggatatagag cagtggattt 240  
ttgaatccgc cgtctgattc tgacctccct gttgatgtgt tctgacacga gggaactttc 300  
tgctgaagc agtaagggat agaagtcacg gcgatagatt gtttagagca aaaatcatag 360  
gtagaggatg atgttatatg cggggcagtg acctccgtga ggtcaagagc cccatagaag 420  
cttttatctt 430

<210> 9675  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-041-Q1-K1-F8  
<400> 9675

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agctaggatt ttgttgacat caacatctga agtttatggt gatccacttg agcatcctca 180  
aaccgaggcc tactggggca atgttaacct aattggagtc aggagtgttt atgatgaggg 240  
taagcgtgta gcagagacgc tgatgttcga ctatcacagg cagcatggca ttgaaatccg 300  
aattgccagg attttcaaca cctatgggcc aaggatgaac attgacgatg gccgtgttgt 360  
tagcaacttc attgctcaag ctgtgcgtgg cgaaccctt actgtccaga agccaggaac 420  
acag 424

<210> 9676  
<211> 451  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-041-Q1-K1-F9  
<400> 9676

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agcactgagc cacctagccg tggatgaaccc tatcgccctac ttgcaacaac agctgcttgc 120  
atccaaccca cttgcttttg caaacgtagc tgcataccaa caacaacaac agttgcaaca 180  
gtttctacca gcgctcagtc aactagccat ggtgaaccct atcgccctacc tacaacagca 240  
acaacttctt tcatctagcc cgctcgctat gggcaatgca cctacatacc tgcaacaaca 300  
gttggtgcaa caacagttgc ttgaacaaat tggaccaact cttactcaac tagcttgggc 360  
aaacctgct gnctacttgc acaactactt tcattcacnc aactgactgt gtcgaactct 420  
gctgcgtacc tacaacagcg acaacagtta c 451

<210> 9677

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G11

<400> 9677

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tccctactta tgctccttgc tctttctgca tgtgttgcta acacgacaat tatcccttaa 120  
tgctcacaag cttctatacc tacccttatt ccaccatacc ttccatcaat gatagcttca 180  
gtatgtgaaa acccagctct tcagccctat atgctccaac atgcaatcat agcaggcaac 240  
atacctttat cacccttgat gtcacaacaa tcgccagccc tatctatggg gcactcatag 300  
ctacaaacca tcagggcaca gcatctgcag caactcatgc tacctgtgat caaccaagta 360  
gctgtggcaa acctattatg ctactctgag caacaacaaa ttcttccatt taaacaac 418

<210> 9678

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-G2

<400> 9678

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cgggaacgag ggctccacta gcttctgggt ctccctgctg gtggagtctg aggacggcga 120  
cggcgacatc ggatccatgc agctcaaaca ggccaactcg gcgcagtggc gagacatgca 180

gcacgtctgg ggggccacgt ggagcctcac cccggggccc ctcgtcgggc ccttctccgt 240  
 gcggctgacg accctgtcgg gcaagcagac gctcacggcc caggacgtca tccccaagaa 300  
 ctggggcccc aaagccacct acacctcccc cctcaacttc gcgtagaggc cttctgcctt 360  
 ggcccgccgc gtatttatcg ttctgtgcag tttgatgtcg cgtgaagggg ataagct 417

<210> 9679  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-G4  
 <400> 9679

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 gggtagcaag atattatccc tccttgcgct tcttgcgctt tttgcgagcg caacaaatgc 120  
 gttcattatt ccacaatgct cacttgcctc aagttccatt attacacagt tcctcccacc 180  
 agttacttca atgggcttcg aacacccagc tgtgcaagcc tataggctac aacaagcaat 240  
 tgcggcgagc gtcttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatct 300  
 aacaatacaa accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct 360  
 agccatggtg aaccctgccg cctacttgca acagcagttg cttgcatcaa accc 414

<210> 9680  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-G5  
 <400> 9680

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 acccaacaaa aaccctcgct cgctcactt gttcgtcac ctcggtgcgg cgcgtcgttc 120  
 ggacacggag atacagcggc gattccggcg atggagtacg tgaacccct caccggcttc 180  
 cgcgtcgacg gccgccgcc caacgagatg cggcaactca agggcgaggt cggcgtcgtt 240  
 gcgcgcgcag acgggtcggc gctgttcgag atgggcaaca ccagagtcac cgccgccgtc 300  
 tacggccccg gagaggttca gaacaaaggt cagcaagtaa acagcaagga ggctttggtt 360

cgttgtgagt acaggatggc agagtttagt acaggagatc ggaggagaaa accgaagggt 420  
gacaggcgat caa 433

<210> 9681  
<211> 406  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-041-Q1-K1-G6  
  
<400> 9681

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tggagctcat caagtccagg ggcaccgtgt gcgcgctcct cctggcgctg ctctgctct 120  
cacactacga cggcgggacg acgacgacga tgggtggcgga ggcccgggtg tgcattgggca 180  
agagccagca ccactcgttc ccctgcatct ccgaccgcct ctgcagcaac gaggcgctca 240  
aggaggacgg cgggtggacc gccggctact gccacctccg ctactgcagg tgccagaagg 300  
cgtgctaagc aaagctcttc aaacaccctt ggcttgccag aactgaactc tagtagtact 360  
aagtaacacc cttggctagc tgtgcacaac ctacgtaccg tgcattg 406

<210> 9682  
<211> 344  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-041-Q1-K1-G7  
  
<400> 9682

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
ataaaaaaaaa aaaaaaatTTT aaaatatatt tttttttttt ggttttaaaaa aaaaaataat 180  
ttgggcacgt tttaatgttt taaattttac tttcatttta tttcaattgt atatttttta 240  
tttagtgtaa cttaatttaa ttttattggc agtattttta aaactccggt actggaaaaa 300  
cctttggttt acctaattta ttctcttttag agaaaatccc tttt 344

<210> 9683  
<211> 417  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-F12

<400> 9683

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gaccaacaag caacatagaa agtggaatcc agtagcaaca atagagcaac aatggcgacc 120  
aagatatttt cctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt 180  
ttcctcaat gtcacaagc tcctatagct tccattcttc cccatacct tgcataatg 240  
atagcttcag tatgtgaaaa ccagctctt caacctata agctccaaca agcaatcgca 300  
gcacgcaaca tacctttatc accctcgatt caacaatcgt cagccctatc tttggtgcag 360  
tcattggtac anaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatc 417

<210> 9684

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D8

<400> 9684

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ctcgctggg ccacggacga cactccctc cacaacgct tcagcaccta cggcgaggtc 180  
ctcgagtcca agatcactc cgatcgggag acgcagaggt cccgcggctt cggttcgctc 240  
accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300  
gacggccgca acatcacct caacgaggcc cagtcgccg gcggccgtgg aggcggcggc 360  
ggtgggtacg gtggtggccg tggaagcggc ggctacggcg gt 402

<210> 9685

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D9

<400> 9685

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accgccgccg gttcatctac cgccgccggg gcatctgcca cctccgggtc acctgccacc 120  
tcctgtgcat ctcccaccgc cgggtccacct gccgccgccg gtccacctgc caccgccggg 180  
ccatgtgccg ccgccgggtc atctgccgcc gccacctgc cactacccta ctcaaccgcc 240  
ccggcctcag cctcatcccc agccacaccc atgccgtgca caacagccgc atccaagccc 300  
gtgccagctg cagggaaacct gcggcggttg cagcaccgcc atcctggggc agtgcgtcga 360  
gttcctgagg catcagtgca gcccg 386

<210> 9686

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-E1

<400> 9686

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gggttcaaca attaaaccag tagttgcagc gaaccttgat gcttaccttc agcaacaaca 120  
atttcttcca ttcaatcaac tagctggngt gaacctgct gcttacttgc aggcacaaca 180  
gctactacca ttcaaccaac ttgtcaggag cctgctgcc ttcttactgc agcaacagtt 240  
gttgccattc catctacaag ttgtggcaaa cattgctgct ttcttgcaac aacaacaatt 300  
gctgccattt taccacacagg ttgtgggaaa cattaacgcc ttcttgcaac agcaacagtt 360  
gctgccattc taccacaag atgtggcaaa caatgtcgcc ttcttacaac aacaac 416

<210> 9687

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E4

<400> 9687

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cagttataaa gcccacaagc aatgtcatcg gtccaagtat gccacctgtt gctgtatcca 120

actgtgtggt gccctctgta cagccgaaga agaagagcag ctcagcagca acccggaag 180  
atctggaggt gaagaagagg cgagtccttg aggctggagc agcgcagggc gaagtaaaaa 240  
tctgccaagt gtgcaatggt gtagtgaaca gccaaaaagt gtacgagttc catattgcgg 300  
ggcagaagca ccaggccttg gtacgtaagc agcaaccgct acgttttgtc acatgatgca 360  
gagccatttt gtcgctcgtc tttcgtctgg cctcatgctt gtccggaagt tcctctggaa 420  
cgagaactca caacatt 437

<210> 9688

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E5

<400> 9688

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ggctgccagc gccagcgcgc ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccagc tgccgtggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360  
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<210> 9689

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E6

<400> 9689

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caacgaggcg aggcgagggg agggaaaaca agtgagtgag agagagagag agaggagga 120  
aatgctgcg ccacgccgcc cgcgcctcg tttccgcgc cgtcgtccg cccaccgcgc 180  
gccgggcgct gccacggcg gaggtgcccg cggaggccgt cgaggactcc acgttcgtcg 240

aggcctggaa aaaggtcgcc cccaacatcg agccccagc gacgcccctc tccctcatgc 300  
agccgcgccc gccacgcca gctaccatcc ctaccaagct caccgtcaac ttcgtcctcc 360  
cctacaagtc cgagatcgcc aacaaggagg ttgacatggc aattgtacca gctacaactg 420  
gtcaaatggg tgt 433

<210> 9690  
<211> 408  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-041-Q1-K1-E8  
<400> 9690

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acaaatcggc catcgaagag gagctgcccc agggtcacgc tgagacctca aatgttttgc 120  
aagaggcctt tgatgatgac atagacgatt ggttcgagga ggctgatctt gctggccacc 180  
caactatcca cataggtgac gaggaagacg tgtcttttag tgacttggaa gaggatgacg 240  
tgaaatgatt tatagttgca attgcaattt gcaaaggag aaatcgacct gtgtattgga 300  
aactggacac ctctgctgta aaagaaaatg gaggtgaaag ttgttcgtag acacctctgc 360  
tgtgcaagaa aatggagagg tgaaagtttt tcgtgaatgg gaatgggt 408

<210> 9691  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-041-Q1-K1-E9  
<400> 9691

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tctccctgga tgggttgacg aatgctggga agacattgct ggtcaatgct gttgctacag 120  
gtggctacag tgaggacatg attccaaccg taggcttcaa tatgcggaaa atcaccaagg 180  
ggaatgtcac aattaaactt tgggatcttg gtgggcaacg aagattccgc actatgtggg 240  
agcgctactg ccgtggagtt tctgctattc tatatgctgt ggacgctgct taccgagata 300  
gcatcccaat agcgaaaagt gaattgcttg gtctgctgac aaaacaatct ttaactggga 360



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390

<210> 9692

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F1

<400> 9692

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tgcagtctcc agttctccac cttgccagcg tctctccacg tacgccatgg acgggtcggc 120

gttcccgtcg ctgtcgccgg agctccgcga cgcgctcgcc aaggtggccg tgttcgtgct 180

cgtccagggg ctggtctacc tcctcctccg cagctcctcc gacgtcttct ccaaggacgg 240

ccggctcagg tccctcagct tccgccccat gcgctccatg agcgtcaggg gcgtgctggc 300

gccgctctcc gacgtccccg tcggcaccca acaacgccct ttccatcggt gtcgccccgc 360

cgcgacgtcg tcgcaccgca aagctgcccc cgaggattga aatggccgcc acttctgggc 420

agcttgcagt tgcag 435

<210> 9693

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-F10

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agagcagagc ctcgttgctg aggaggggag atggcaggca tgaccgatat gccgatgagg 180

ccggcgcggc cgggcccgcg gatgcagcac cggggccctc cgccgatggc gcgcctccgc 240

cccgaaccaa tcgaccgca gaagacctgc cctctgctgc tcagggtttt cacaagggtt 300

gctggtcacc accaaaatga agagttttct gtgagaggga aagaaccaa ggatgaagtt 360

cagatttaca catggaagga tgccactctc cgtgagctta ctgatcttgt gaa 413

<210> 9694

<211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-F11  
  
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 ctgctcgtcg gccaccagga cggcgtctcc acgcgccgag ttcctcccat ggctatccca 180  
 aaccctagcc gagatccccct cctgtgttgg cactgtctc cttcaccagg cgctcctccc 240  
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 <223> Clone ID: LIB3059-041-Q1-K1-D6  
  
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 tcctatagct tcccttcttc ccccatacct ctcatcagcg gtgtcttcag tatgtgaaaa 180  
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 acccttggtc ctccaacaac cgtcatccct attacagcag ttacctttgg tgcatttggt 300  
 ggacaaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360  
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<210> 9696  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C1

<400> 9696

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<210> 9697

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C11

<400> 9697

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acgcgggtcg tcaagacccc tgggtggcaag ctctgtgtacc agtacaccaa gaagagagcc 180  
agcggggcca agtgtcccgt gaccgggaag aagatccagg gcattcccca tctgaggcca 240  
gctgagtaca aaagggtccag gttgtctagg aaccgcagaa ctgtgaaccg tccctatggg 300  
ggagtactat ctggaactgc agttagagaa aggatcatcc gtgcttttct ggttgaagag 360  
cagaag 366

<210> 9698

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C12

<400> 9698

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gcacccgctc ctcaaccggg cccacaccga ctccccgcca cccacccccca cgggcccgcg 180  
ccgcccgcgc cgtccccgt ccccgacccc cgcgcgcgcg acgtcacctg cgctcctcgc 240  
gggcatcctc tcccacctcg ctgaaatcgg cggctccttc cgcggcgggt tactccgctc 300  
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<210> 9699

<211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C2  
  
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 agggcacgct cgaggtcggc ttcttcacca ccgccaacag gtccttcagc aagaccgctcg 240  
 ccacggggga cgtcttcgtc ttcccccgcg gcctcgtcca cttccagcag aacagggggc 300  
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<210> 9700  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C4  
  
 <400> 9700  
  
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 gcagcagccg cagccatggc aataccccac tcaaccaccg cagctaagcc cgtgccagca 240  
 gttcggatcc tgccgctcgc gcagcgtcgg cagcccgttc ctggggccagt gcgtcgagtt 300  
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 gcagcagcag tgct 374

<210> 9701  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C5

<400> 9701

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tcaccccagc caaagctgac gcctgatcgt cacgctatta ttcactcaca tgtgatgctg 180

cggctgcgac tcctaaacct taaatctaga aatagctggg gattgggttt gcattgcac 240

gtgttcttgc cggcttagca agtgactata agaataatgg aataaacgat gaccagtggt 300

gtgtatgatt tccgttctga agaacaacac atcccttgca ggattgttgt tcagtagatt 360

ctacttgtag cgcggtttg gagttccgca aaggacttta cttgttcaag aacttcttct 420

ctgac 425

<210> 9702

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C6

<400> 9702

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acgtgagact attgaagaaa atatatttgt taggagtaaa gcaaaagaga agcacatgga 120

gtacgaggaa gagatgaagt cccaggagga aatttttcat ggtctaattg aggatattca 180

caagggcaca gaggataaag aaaagcagtt tgagaagttg ttgcaggaag agcgctcaaa 240

ggccagacgc tttgatgttg attctggaac tatgaaagat cgtcagctaa ggaaggaata 300

tgtgcagaag ttcattgatt gccaaagtaa ggatgtggca gagtttgaag ttgagcgaga 360

tgagctgac aaagtccacg aggacaagaa gttgaagctc aagaaggata catggatctg 420

gaac 424

<210> 9703

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D11

<400> 9703

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 cttgctcttt ctgcaatagc tgctaccgta acctttttcc cacagtgcta cacaagctcc 120  
 tatagctcgc tttctttcat cattcctctt accagctgag tattcaagat ttcaaaaccc 180  
 aatatctcaa ccctacaaga tgcaatcggc gatcatcaca ggca 224

<210> 9704

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 9704

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 ggtgcccggc tcccctcggc atccaccgac gccggccgac tcactatctc cctccccccg 180  
 ttgatgcccg acatcaatgg cggagcacca tcctgatctc atcatatgcc ggaagcagcc 240  
 tggcatcgtg attggtcgcg tgtgcgagaa atgtgatggc aagtgtgtcg tctgcgacga 300  
 gtgcaattat ggttcgttcc agggaagggtg tgtgatatgt ggaggagtcg gcatctcgga 360  
 cgcttactac tacaagaagt atggttctaa gaagagatga tcgagatgat ttgngctgtg 420  
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<210> 9705

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-D3

<400> 9705

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 atcttgccaa gagaagagca gtacgagttc gacctncaac gggagaagga ggccaaggag 180  
 aggcaggcca agaagctgca agccaagaaa tccaagatga agatagatgg tgctgaaaag 240

aaacgtaaag gtggccaatt taaggctggc aagaaaaagg tgaagacgaa acttttcagcc 300  
 ttagcaaaaag ccaaagccgc gcaagccatg gaggtcgaca agtgactgcg gagcacaagc 360  
 atcatcacct taagcgtcga gccagagttg gaactctgaa ttctgtgccc acatgaat 418

<210> 9706

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D5

<400> 9706

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 acttgctcct agtgccatta taccacagtt cctccgacca gttacttcaa tgggcttcga 180  
 acacctagct gtgcaagcct acaggctaca acaagcgctt gcggcgagcg tcttacaaca 240  
 accaattaac caattgcaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac 300  
 acaacagcaa caacagttcc taccagcact gagccaacta gatgtggtga accctgtcgc 360  
 ctacttgcaa cagcaggtgc ttgcatccaa cccacttgct ctggcaaacy taactgcata 420  
 ccaac 425

<210> 9707

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B9

<400> 9707

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 gctcacaagc tcctatagct tccctttctc ccccatacct ctcaccagcg gtgtcttcaa 180  
 tgtgtgaaaa cccaattgtt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240  
 taccattatc acccttgctc ctccaacaac cgtcagccct attacagcag ttacctttgg 300  
 tccatttggt ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaac 360

ttgctgcata ctctcagcaa catcagtttc ttccattcaa ccaactggct gcattgaac 419

<210> 9708

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A4

<400> 9708

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acttttcagt taaagttttg tagtgctgctc tgtcagttgc tgccctcaaac ttggaatact 120

acttctgttt ggcacctgaa ctgcttatca aaaactttat gtataccagt tacattccac 180

ttttaacctt catattagta ttaccatatt ataactgtct tttcagtatt tagtacttac 240

tattcatggg gacttgcacc tttctagtta catggagtga agatatgctg gctgatatgc 300

ggccaacatg cacgtagctt actgttgaag ttgatataat ctgtgctggt tgcgttgctg 360

atgatgatgg ctgatgagat gatggaactg cagctgactg cacaagttgc tgctgtctgc 420

acctattatg c 431

<210> 9709

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A5

<400> 9709

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atgtccgtgc atatggaacg gataaggagc atactctgag ggtaccagaa gattccttct 180

acaaacagat ggctgctgaa ttcacaaaat atcagattgc agtggacata ttttctttca 240

gcgataagta ctgagatata gcgtcttttag gatctttggc gaagtatact ggtggtcagg 300

tgtaccacta tgcattcattc cagacaccta cacatgggtga caaacttaaa cttgagctta 360

gtagggacct tacacgagag actgcatggg aatctgttat gcgtatcaga tgtggaaa 418

<210> 9710



<211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A7  
  
 <400> 9710  
  
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 aaaccccaaa tcctcgagat ctatcagtat cgagcgactt accaatccga ttgctagggg 120  
 ttagtttcga aaaaatctga aaaaaaattc tggtcgaggg gaggaggcga tgtcggcgca 180  
 agtggcgggtg gtgcctaata ggggcccggg cgctgtcccc gcggtgggtg cgcggggagc 240  
 tgtcggcggtg gtcagcctc tcccgaccac gtcgctctac gtgggcgacc tggagggggc 300  
 cgtctcggac tcgcagctgt acgaactctt cagccaggcg gggcaagtgg tgtcgggtgcg 360  
 cgtctgcagg gatgtcacct cgcgcgctc gtttcgatac gcctacg 407

<210> 9711  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 9711  
  
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 cggcatgcac ggcgaggcgc agcagcagca gaagcagggc gccatgatga cggcgctcaa 180  
 ggccgcgacg gccgcgacct tcggcgggtc gatgctgggt ctgtccgggc tgatcctggc 240  
 cggcaccgtg atcgcgctca cgggtggccac ccccgctgtg gtgatcttca gcccggtgct 300  
 tgntcggccg ccacgcgctt ggcgctcatg gcggccgggt tcgtcacctc cggcggcctc 360  
 ggcgtcgtg cgctgtccgt gttctcctgg atgtacaagt acctgacggg caagcacc 419

<210> 9712  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A9

<400> 9712

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cccagggtta cctcgtcgcc accaaggcgc agggagaagg cttccagtac atcgcttcg 120  
agacgaaccc tgacaccatg gtcagccacg tcgacgggaa gaactccgtc ctgagcgact 180  
tgcacggccg cgtcatcgcc agctcgtatg ccatctccat ggaagaagct gcagagctca 240  
agaacggtag gaagcatgag ctggctgtgc ttactcctgc 280

<210> 9713

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B1

<400> 9713

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ggaactatat cagctatggg atgtcgtgc ttgaggaaaa tggacatgat gagattagta 120  
tcaaggccat gggacgggcc ataaataaga cagttatggg tgttgaattg atcaagagaa 180  
gggttggagg tttcatcag aacactgcta ctgaatctgt tgatatacaca gacacatggg 240  
aacctttgga agaaggcctt ctcccactag agacaactcg ccatgtgtcg atgatcaactg 300  
tgacactgtc aaagaaccct ctggatacat catctccagg ataccagcca cctatcccag 360  
ctgaagaggt gaaacctgct ttgactatg atcatgaaga atcgatatccc actggctcgtg 420  
ga 422

<210> 9714

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B10

<400> 9714

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gcaagagcaa gctgcaagca gattacaggg ccacgaagct cgcccctgct ctgctctcta 120

tcctattagt cctcgaattg ggctttcctc tgctgcgggg ttctgggtctc gtctggggttt 180  
cagacgccag atttgagca gaggacaccg gtccttggtt tcttgccgc cttgccggct 240  
gcaatgttat ggcgcttgcg gngttatgta gagcctgaat tctgtgatga cggngaagtt 300  
cgcgtcgttg ggagattttt tctgtgcttt ctcttttctt agctgagaaa tttggtgcta 360  
tttgggtgctc gccgacgccg agccggaggg cgtaatc 397

<210> 9715

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B11

<400> 9715

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ctgctagtat agcgggtgat atgggttcttg cttctgccta ctgcgatgag ttgccacgat 120  
atgggtcttga agttgggtctg accaactatg cagctgccta ctgcactggc cttctgttgg 180  
ctgcgcgtgt gctcaagatc cgtgggtttgg atcatgagta cgagggcaat gttgaggcca 240  
ctggtgagga cttctctggt gagccagctg atgagaggag gcctttccgt gctctcttgg 300  
atgttggcct tatcaggact acaacaagga accgtgtctt tggtgccctc aagggagcat 360  
tggatggaag cctggatatt cctcacagcg agaaaagggt tgctgga 407

<210> 9716

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B12

<400> 9716

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atcagatcac tgccaagaat ttgagagatg ggaaagagct gaagatggat gtaatggtca 180  
tggaaaacct atttttcaag agaaaggat caagaatata tgacctaaag gggtctttgc 240  
gttcccgtca caaccctgat acttcagga acaacaaggt tctcttggat cttaatctgt 300

tagagacact tcacacaaag cccatttttc ttggaagcaa agcaaaaaga aggctagaac 360  
gagctgtctg gaatgatact tcttttctgg catcggtgga tgtgatggac tactctc 417

<210> 9717

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B2

<400> 9717

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aggggtgtgag ggaaggagca ccagccatgg tgcacgtcaa cttctaccgc aactatggta 120  
agacgttcaa gaaaccaagg cgtccttatg agaaggagcg tcttgatgct gaactgaagc 180  
tggtcggtga gtatgggctg aggtgcaagc gtgagctttg gaggggtccag tatgcaactga 240  
gcaggatccg taatgctgca aggcacttgc tcacccttga cgagaagaac ccccgtcgta 300  
tctttgaggg tgaggcgctt cttgcgcgca tgaaccgcta tgggctgctt gctgagggtc 360  
agaacaagct tgattatggt cttgcccctca ccgctgagaa cttcctcgca aggcgggcttc 420  
aaacacttgt 430

<210> 9718

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B3

<400> 9718

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ataaaaaaat ttaaaaaatc aatacatact tataaataat gaaaatcttg atgctaaaac 180  
taattataat tcaaaaaata ttaaatataa gttaaattatt aaacttttta aaatttcatt 240  
atttaatgaa tttgattcat aatcctttat tgcactttat tatcatt 287

<210> 9719

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-B4

<400> 9719

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ccaactctac tggagctgat ataaggagcg tttgcacaga agccgggatg tacgccattc 180  
gtgcccgcag gaaaacggtg acagaaaagg attttctcga tgctgtcaac aagggtcatca 240  
agggctacca gaagttcagt gcaacaccca agtatatggt gtacaactag tcggcgtgtc 300  
ttcatgggat ctgttgtttc tagaaactct ggatcttttt catggttcta tcatcatgag 360  
attctctatg caaaagtgtg tgtttgttta gcaaattgga tgcccaatgg aattgggttc 420  
tgtaccgcat gttttta 437

<210> 9720

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B5

<400> 9720

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gtccttgctg taatgttttag ccaatcctgc cccgatccgg ggaactgaga gattgtcttt 180  
atcgcaacat taacagctag cggtagtat catcttccag tcacctggaa tgttactagt 240  
agtacaatcc agttgtctgt ttctgcccgc ttacatgtaa aagtccatat tcaagtttta 300  
cagaaagaaa catgttctga cttttattac aaaatatacc aaacaactat accagctgaa 360  
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<210> 9721

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 9721

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tgaagctcta caacaaagtg cctcctaacg gattgggttct gtacactgga actattgtta 180  
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tatcactcta cctttgtgac aacaagttcc aactgaggc tttaaatgag ctcttggaat 300  
ctgatgacaa gtttgggttc attgttatgg gtggtaatgg tactctnttt ggcacactaa 360  
gtggcaatac ccgtgaagtg cttcacanat tcactgttga cctcccaaa 409

<210> 9722

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 9722

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gtgccaaaac tagttccaca cttgcgggccg ggcgaaagaa cccgtggcaa tagatgaagt 180  
taccaatagt gtcatttacc tgatactttg ttggtagatc aagtgcacta ggttgggtgaa 240  
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ttgtcgcaac cggccgggtg ctgatgaaat ttttgataga ccagaggagt ttatcaatcc 360  
catggggtttg gcggcgataa ttttctagtg acaggggttg nntaagacta cctgttac 418

<210> 9723

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-B8

<400> 9723

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agcaccagct tctccagttc ctgcacacac aacagcagat tctccagaag caccagtttc 120  
 tgtttgttct tctgtttttt ctctcccagc accagcttgt actgcactta cagttaaaag 180  
 attattacta acgttgtgtg cc 202

<210> 9724  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-A3  
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 tggaggcggc ggctacagcg gtggcgggcg ccgtgatggc ggcgcggtct acagcgggtgg 180  
 cggcgggtac tgtggcggcg gcggctactg tgggtgggtgc ggcggtctac gccgtggcaa 240  
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 gcggccaagt taccctgttc gctgccgtga tgtttaccct agtccagagg gtttatcttc 360  
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 gatgataatg ctgtgttta 439

<210> 9725  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-040-Q1-K1-H1  
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 tagatgacac cgatcgtaac agaccaacca ataatgataa tgaatacgtc tcctccgcga 180  
 atgatggagg tgatggcagc tggaaatctc agagaaagaa aagagagaaa gaagatgatg 240  
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 c 301

<210> 9726  
 <211> 471  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-H4  
  
 <400> 9726

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 aagaatgccc gtgaggcagt gaagcacttt ggcaaggctc ctggagtgcc gnacagccac 420  
 accaagccgt atgtgcgctc caagggaagg aagttcgaga aggctcgtgg c 471

<210> 9727  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H6  
  
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 aagatggccg gtcgcgcgct gtccttgcg ggcccgcccc ccacgggcaa aacggcgcta 180  
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 ataggtttgc gtataaagga aaacaaagag gtttatgaag gagaggttat tgaactttcc 360  
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<210> 9728  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H9  
  
 <400> 9728

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 attttcccac aatgctcaca agctectata gcttactttc ttaccccata cctctcacca 180  
 gcggtgtctt cagtatgtga aaaccaatt cttcaaccct acaggatcca acatgcaatc 240  
 gcagcatgca tcttaccttt atcacccttg ttccttcaac aaccgtcagc cctattacag 300  
 cagttacctt tgggtgcatth gttgacacaa aacatcaatg cacaacaact acaacaactt 360  
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<210> 9729  
 <211> 354  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A10  
  
 <400> 9729

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 cctcttataa ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc 180  
 gttctaccaa caacccatca ttggtggtgc cctcttttag atttcttatg agttatagtt 240  
 caataataaa gttgtttgc tgatgtttgt ggcttcccag aaataagaac gtacatctct 300  
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<210> 9730  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A12

<400> 9730

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cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaggcac 180  
aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcaa cagcagtttc 240  
ttccattcaa ccaactggct gcattgaact ctgctgctta tttgcaaca caactaccat 300  
tcagtcagct agctgctgcc taccctcagc aatttcttcc attcaaccaa ctggcagcat 360  
tgaactctgc tgcttattta caacagcaac agctaccacc attcagccag ctagctgatg 420  
tgaaccctg 429

<210> 9731

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-A2

<400> 9731

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cagagattac aggggcatat gaggaagca tgaaatgtat acgtgggtat ggaacaaggt 180  
tggtctggaa ctcggtgaca tccacattga tagcaccatc aaacctcagg gaggtggtta 240  
gagatgatat gatctgtgag atcagcctgt tcaagttggt gtaggttggc ctttcgatgt 300  
caagggacct cctgcatatg tcatagatag cctcggtgtc caggaggact gcaacatcag 360  
tgtgctcaag caaggagtgg gtggagagga cactg 395

<210> 9732

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F4

<400> 9732

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tcaaaaccca attttctcaac cctacactat ccaacatttc aatcactatc attcatctta 120  
ccattatcac ccttattcct cctacatcct tctatcctat tacatcaatt acctttcttc 180  
catttcattc cacaaaacat tattacacat caactacaac aacattttct aactaaacct 240  
ttcttcatac tatcatcaac ttcattttca ttcattctac c 281

<210> 9733  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F5

<400> 9733

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tctgggatgg tgattttcgt ctaaagtggg atcccatgct tgcatactcc aaatctttgg 180  
atgagttccc tcagaatgga gcaacaattg tccactggat aaaaaagtgc ccattctttt 240  
gcagtgaccg tgaatacatc tttggaggac gcatatggga atctgggaag acttactatt 300  
gtgttacaaa ggggtgtcca tatccatcat tgcccaagaa agaaaaacca aggcgtgtgg 360  
agttgtactt ctcaagttgg cgtattagag ctgttcaatc gcctaaacat gtgggtcagc 420  
aatctgcg 428

<210> 9734  
<211> 240  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-F6

<400> 9734

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cctaataaag ttgttatatt aaacattttt cgcgccataa aacaccatac tacacattaa 120  
ctatctacat atttcttctt aaatcatata ttctcatcta aaaccactat cccatttttt 180  
catactcaaa atctaaaaat cattatccat tataatcaaa catcaattaa ccactttata 240

<210> 9735  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-G3  
  
 <400> 9735

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accagaatag agtatctcca tgggacatcg agggagttgg cagctcagtt ttagttactc 180
accgtctttc ctcttctggt tcgaagcgaa caaaactgtg cttccctcca agcgatttga 240
acacaccaat tctagatgga aatggtcgct cagactccgt ggaaactgaa cgtttccaca 300
gggtcttgca gggtaaaaaa tgggtgccacc ctaatatcaa tgtgcctcat ggctttaatc 360
atcaaatagc cccaaaagtc aagggctcta atgcaaggag attctctgct gatgtgtgga 420
actgcaagat gaatgat 437
  
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<210> 9736  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-G6  
  
 <400> 9736

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cccaacacct acaccttcta cattctttta ctaaaccatc caaaacaact acttccctaa 180
ctaccactct tactatacca tcttaacct catcatctaa cctctcctac tcataccata 240
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<210> 9737  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E12

<400> 9737

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ctgtccgaga cctcggggag gcctgccctc tcggctctcg cgttaccgat cgaggcgtgg 180  
agagaaatgg cggcggcagc agcaacaaga gcaggagcgt ggggcgtggc gtggctcctg 240  
gcggccaccg tggcggcggc gctgctggcc tcggcgtcgg cgcagtcagg gtgcacgacc 300  
acgctgatca gcctgtaccc gtgcctcaac tacatcagcg gcaacgtgtc ggcgccgncg 360  
tcctcgtgct gctcgcagct cgccagcgtc gtgcagacca acccgagtg cctctgcgcc 420  
gcgc 424

<210> 9738

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E4

<400> 9738

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ggagaatgcc ttgcctcct acggcgagat cctcgactcc aaggatcatca ccgaccggga 180  
gacggggagg tctcgcggct tcggcttcgt taccttctcc tccgagaact ccatgctcga 240  
cgctatcgag aacatgaacg gcaaggagct cgacggccgt aacatcaccg ttaaccaggc 300  
ccagtcgccg ggcggtggcg gtggcgggcg tggctacggc ggcggtcgcg gcggcgggcg 360  
ctatggtggc ggcgcccgtg actgcggtta tggcggcggt gg 402

<210> 9739

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E8

<400> 9739

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agttgtccga atggcaaacc tctgtgttgt tgggtgggcat tcagtaaag gtgtagctga 180  
aattcacagt gaaattgtga aacaggatgt gttcaacagc ttctatgaga tgtggccaac 240  
taaatttcag aataaaacaa atggagtgc tcccaggcgt tggatccggt tttgtaatcc 300  
tgcattaagt gcattaattt caaagtggat tggttctgat gactgggtgc ttaatacaga 360  
caaactggca gaactgaaga agtttgctga taatgaagat ctgcattcag agtggcgtgc 420  
tgctaag 427

<210> 9740  
<211> 52  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-D10  
<400> 9740

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<210> 9741  
<211> 429  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-D5  
<400> 9741

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ctatctgccg ccgcagcagc agccgcagcc atggcaatac cccactcaac caccgcagct 180  
aagcccgtgc cagcagttcg gatcctgcgg cgtcggcagc gtcggcagcc cgttcctggg 240  
ccagtgcgtc gagttcctga ggcaccagtg cagcccggcg gcgacgccct acggctcgcc 300  
acagtgccag gcgtgcagc agcagtgtg ccaccagatc aggcaggtgg agccgtgca 360  
ccggtaccag gcgacatacg gtgtggctct gcagtccttc ctgcagcagc agccgcaggg 420

cgagctcgc

429

<210> 9742  
<211> 315  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-040-Q1-K1-D7  
  
<400> 9742

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aatctcacca ctttcttcta tcaactaaca atcatcaata aatcttataa caaattacac 120  
accaactgaa tttcacctct acttocaaca tctcatcctc ttaccaaacc ctacctcata 180  
tctctctact atacacaact gctcatatat gtgcctatac tcatcatcat cactcaacaa 240  
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taagcatatt tattt 315

<210> 9743  
<211> 369  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-040-Q1-K1-A4  
  
<400> 9743

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gggaagccgg tggggcgggc agtggcgcggt gcagaccaac gtctacggca atggcagcac 120  
tagccgcggc cgggaggagc gctacctcct ccccttcgac ccaccgtcg aggccacag 180  
ctactccatc ctctgggctc ccaccacat catcttctac gtcgacgaca cgccgatccg 240  
ggaggtgatc cggcaccggy acatgggcgg cgacttcccg gcgaagccga tggcggtgta 300  
cgccaccatc tgggacggct ccgcgtgggc cacggacggg ggcaagtaca aggtcaacta 360  
caagtacgc 369

<210> 9744  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A5

<400> 9744

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tgcggcgcaa ccttccaggt ggaaggggct acgggtgctca cagcgctgca ttaggagatg 180  
aggtgtcttc ctccgtctcc aggctggac tgggggcaac tgtacatggt gcctgggtgg 240  
gtaatgtaac ataacggcaa tggcatatgc agctgatcct ggtctgcctg tatcatctcc 300  
tcccaccgt aaagagaagt tctttctgcc gccatcgcca tggtcagtca gagcttctct 360  
gctatagctg ctggatgtgt tgtgtgttgc gtctgtatcg tctctagttt gttcgactta 420  
cgtg 424

<210> 9745

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A6

<400> 9745

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aaattaaaaa aattaaaaac acaaaaatac aacataatat aatcaaaata ttatatcacc 120  
ttaacttcaa taaactaaca catcatttta caacttcaaa tactctt 167

<210> 9746

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-A9

<400> 9746

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tttcccacc ttcgtgtgga agtaggcaat gcagcttttg agtcattgga tagaatgagg 180  
gatgaaagca agaaaaatac attaaagcta gttgacatgg aatgcagcta cttgacagta 240



gattttcttca ggaagcttcc ccaggatggt gagaggggtg gaaatccaag ccactctatt 300  
 tttgatagat ataatgactc ttatcttaga cgaattggac aaactgttct gtcatatggt 360  
 aatatggtgt gttecgacctt gaggaactcc atcccanaat cta 403

<210> 9747

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B12

<400> 9747

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 acgttaatta atcgcgtgat gcggaagac agccaagtcg accccaagcg tgggcttctt 180  
 cgcaaggcga tgctgatgga caaacctgaa gatggtcgtc aagtgtcat cgactaacia 240  
 cactaaccta gtgttactca ggttctaact ttgtgctgtt gttgatggtg ttaagtgccg 300  
 gtgggctcgg ctttcttata agtctaagta acccttctat acttcttatt gaggatgac 360  
 ccttgagcta gcatatatat ttcaaactta tacttttgta atcactccga ttaactaatg 420  
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<210> 9748

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B2

<400> 9748

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 cgccgggacc tcctgcgtgc cgggggtgggc catccgcac aaccgctcc cgagctgccg 180  
 ctggtacgtg accagccgga cctgcggcat cgggcccgc ctcccggtggc cggagctgaa 240  
 gaggagatgc tgccgggagc tggcggacat cccggcgtag tgccggtgca cggcgtgag 300  
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<210> 9749  
 <211> 75  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B3

<400> 9749

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cgggggtgggc catcc 75

<210> 9750  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B5

<400> 9750

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caactccctg tttccctacg aacttctcga gatccttcgt gcccatgcac aggttggtgga 120

agactttgca aaatttgaca ttctgatgaa actgaagaga ggcagcaagg aggagaagat 180

caaagcagag gtccataaga gcctggaagg ggcctttgtg ctaaaccagc atcagccggc 240

ggagcatgat gagtcgagca gccagtgaac tgacgtaact gtgtgagctg tagtagtaac 300

gtacttcgtg ttacgtagaa gaataaggag aaaacgacca atccggtttt atctggatgt 360

catgtatggt cgacggtcgt tgctggcttg gcttccgaag acggtacctg ctgtcgc 417

<210> 9751  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-C1

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nctnttcaat ccaacattca acaacaatct ctatctacta acttcttaca acaaccaatt 180  
 acccaatttc aacaacaatc cttaccacat ctaacaatac aatccatcac aactcaacat 240  
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<210> 9752

<211> 525

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-G5

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 ggctccatca tgatnnctct atgagaagtt actacaatca gtaacaatgt caataccttc 180  
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 attccgcaaa agccctttga cattgaatca ggatactttt gctgaagaag acccctgatg 420  
 aagtaccagc acccaaggat aagacaggat gaaagaggaa aagcgaagat ggaggaagaa 480  
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<210> 9753

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G7

<400> 9753

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 ttacagcagt tacctttggt gcattttattg gcacaaaaca tcagggcaca acaactacaa 180  
 caacttgtgc tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 240  
 caactagctg cattgaactc tgctttttat ttgcaacaac aacaactacc attcagccag 300

ctacctgttg cctaccccca gcaatttctt ccattcaacc aactggcagc attgaactct 360  
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 gctaccttc 429

<210> 9754  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-G8  
 <400> 9754

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 ctgcttattt gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg 180  
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 cggccttcta ccaacaacac atcattgggtg gtgccctctt ttagattgct tattagttgt 360  
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<210> 9755  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-H1  
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 gcggcctcga ctgggccacg gacgaccact cctccacaa cgccttcagc acctacagcg 180  
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<210> 9756  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-H10  
  
 <400> 9756

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<210> 9757  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-H11  
  
 <400> 9757

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 gtgaccggag tctcatttgg aactctgacc tgatagagac ccttgagctg gaaaatcttt 180  
 tgataaatgc atgcataacc atgtattcgg cagaggctcg gaaggaaagc agaggagctc 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-H12  
  
 <400> 9758

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 gtcccgccga ggccgccagc ggaggacaag aagccctgca acaggaccag catcaacagg 120  
 ggctccctcg tgaagcggat gcccttcttc cgccgcagca ggtcgcgtcc tcgtcaagg 180

gcggcgtcat ccaaagatgg gtcctcgtc gtcggtgacg ggaaagagag cgacggcgac 240  
 agcgcgttgg cggatccagc gccgacgacg ccgacgatgg gcctagtcca gatgaagcgg 300  
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<210> 9759  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-H3  
 <400> 9759

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 gcatccgtgg atgcaggaac acgcggaccc acaagactcg tgcgggcagt gccacgagac 180  
 cggccttcaa cgggagggcg ccggtcgtg ctccttctac acgccgttgg cgtcgcggag 240  
 catggacgtg agctttgaca cgcgtggccc catcgcgtgg aggggtgggg gcgaggacga 300  
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<210> 9760  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-H4  
 <400> 9760

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 acttcagcat gtctgcatc atcaactgta tttcgcatc ctcaagtacc tactcgtaag 180  
 tgctctccct cccctgaat ctggtctatt ctccatacaa tcgcaaatca cgcggtgcta 240  
 gcaagtaaga attgctcact gtctcacatg tttgatattc ttctgtacta tttcaacctt 300  
 tagttgcatt catatgctta agtctgattc ttcttctgta taatcctatc tttgacagta 360  
 ctagaaaatt attctcatga tat 383

<210> 9761  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H5

<400> 9761

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 aagatattat ccctccttgc gcttcttgcg ctttttgca ggcgaacaaa tgcgttcatt 120  
 attccacaat gctcacttgc tccaagttcc attattacac agttcctccc accagttact 180  
 tcaatgggct tcgaacaccc agctgtgcaa gcctataggc tacaacaagc aattgcggcg 240  
 agcgtcttac aacaaccaat ttcccagttg caacaacaat ccttggcaca tctaacaata 300  
 caaaccatcg caacgcaaca gcaacaacaa ttcctaccag cactgagcca cctagccatg 360  
 gtgaaccctg ccgcctactt gcaacagcag ttgcttgcag caaaccact tgctctg 417

<210> 9762  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H6

<400> 9762

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 agccctatct ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact 120  
 cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctccctact ctcagcaaca 180  
 acaatttctt ccattcaacc aactgtctac attgaaccgt gctgcttatt tgcagcaaca 240  
 actattacca ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 300  
 taaccaattg gccgcactga acccgcgtgc ttatttgcag cagcaaatac tactaccatt 360  
 tagccagcta gctgcagcaa gccgtgcttc cttcttgaca cagcaac 407

<210> 9763  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H7

<400> 9763

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cggcgcgagc gaggagggcc aaggggaaga ggggaagcac cgcaccagga cccttggttcg 120  
ccgccgtcgc ctctgatctc cgcgagggtg tcaggattca atatgtcgac cagcacattc 180  
gctacttcct gcacgctgtt gggcaatgtt agaacaacgc aggccttcca gacagcgggtg 240  
aagagccctt cgtctctaag cttcttcagc caagttacga aggttccaag cctgaagacc 300  
tccaagaaac tggatgtcta cgccatggct gtatacaagg tgaagcttgt cgggcctgaa 360  
agtgaagagc acgagtttga tgctccagat gacgcctaca ttcttgac 408

<210> 9764

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-H9

<400> 9764

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acgccaagaa gtgcgaggcg tcgggcttct gctacgtcaa tgacatcgtg ctgccatac 120  
tcgagctgct caagcatcac gagagagttc tgtatgtcga tatcgatc caccatgggtg 180  
atggagtgga ggaggctttc tacacaacag atagggttat gactgtctcg ttccacaagt 240  
ttggtgatta tttcccagga acaggggata tccgtgacat tgggcactca aaaggggaagt 300  
actactcctt gaatgtccct ctagatgatg ggattgatga tgaaagctac cagtcccttt 360  
ttaagccaat catgggcaaa gttat 385

<210> 9765

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A1

<400> 9765

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cttgtgaaga ggaagggagg aagaaagcgg atccatggcg tcgaagcgga tcctcaagga 120



gctcaaggac ctgcagaagg atccttccac ctcttgcagc gcaagccctg ttgccgaaaa 180  
tatgttctac tggcaagcga cgattatggg gccatcagat agcccatacg ctgggtggcgt 240  
atTTTTggtc actattcact ttccaacgga ctaccattc aaaccaccga aggttgcatt 300  
caagacgaag gtttaccacc cgaatatcaa cagcaacggg agcatctgtc ttgatattctt 360  
gaaggagcaa tggagccctg cactgacagt ttcta 395

<210> 9766  
<211> 218  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-039-Q1-K1-E7

<400> 9766

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ctcgtccctt tttttgtttt ttttttacia gaatgtcaaa agtcgctgcg taatgtgtaa 120  
cgtgaaacta tttgtgggca tcggaggaat cgtttactag tactatatng cagttggaac 180  
actatctcaa acgtcaggga agattatagt ctgtccca 218

<210> 9767  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E9

<400> 9767

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cgccatatag ccagccagtc tgctcatctt catgaggcat actgcatgag acacaatgta 180  
gcctgctcac atgatgggtg tggagttgtc cttcggaagg aagaagcagc agatcatgtg 240  
cactgcaaca agtgcggacg agcttaccag cagagagaaa tggaaaagca tatgaaagtc 300  
ttccatgaac cgttgacgtg cccctgtggg gtggctctgg agaaggaaga tatggttcag 360  
caccagtcct tgacttgccc cttgcgatta attgtgtgcc gcttctgtgg tgacac 416

<210> 9768  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-F11  
  
 <400> 9768  
  
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 gctccgagtg ccattattcc acagttcctc cctccagtta cttcaatggg ctccgaacac 120  
 ccagctgtgc aagcctatag gctacaacaa gcgcttgagg cgagcgtctt agaacaacca 180  
 attgcccaat tacaacaaca atccttagca catctaacca tacaaccat cgcaacgcag 240  
 cagcaacaag cactgagcca cctagccgtg gtgaacccta tcgcctactt gcaacaacag 300  
 ctgcttgcac ccaaccact tgctttggca aacgtagctg cataccatca acaacaacag 360  
 ttgcaacagt ttctgccagc gctcagtcaa ctagccatgg tgaaccctat cgtctacc 418

<210> 9769  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-F12  
  
 <400> 9769  
  
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 cagccacccc gtggcgggag gctcccgacc tcaacggctc gggcgcggtt ccggctgctc 120  
 ggccatggcg gcacaagtgc gcggccccct gaggcgggca gcgcgcagtc ccgcggctct 180  
 ggcagtgcgg gcgctaacca ggcgcagcca gtgtgggttc gtcccggcgg gcgcatggta 240  
 ccggccatgg tgccccgttg aggcgcgtgc gcgcacatgg tattctcacg gaggcaacca 300  
 gacggtcgaa cggatcatca tggtagagaa cactccatgc ataggagtgg gcagaaaggt 360  
 aaatctggtt gttgaaacaa attaacatac gatctttgaa aacctgttgc tgagtaa 417

<210> 9770  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F2

<400> 9770

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tcagccagct acctgctgcc taccgccagc aatttcttcc attcaaccaa ctggcagcat 120  
tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 180  
tgagccctgc taccttcttg atacaaccac agttgttgcc gttctaccag cagctgcgc 240  
ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300  
caaaccagc agcgttctac caacaacca tcattggtgg tgccctcttt tagatttctt 360  
atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc cagaaataag 420  
aaagtacatt tctaaaa 437

<210> 9771

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F3

<400> 9771

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cccatacatc tcctctagca tttcctggcc aaacctctgc aacaaattct gatgtccgag 120  
ttcacactaa agctgttact tttgaagacg acatatatgt agttagtctg tcaaagtctg 180  
ctaccttgct actggattct atacagtctg atcctgtgct caagaattct tcagaccccg 240  
ctctatctcg tgacagaaag ataatatcaa gtggactaaa ggcttttaca ggatctatca 300  
ttgagcacga cgactatgtt tccaccattg aaccttctgt ggctagtctg ttggcaaaac 360  
ctggtactag tgcttcttca aggcccggtg caa 393

<210> 9772

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F4

<400> 9772

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 tgggtgccct ggcgccactg tcaatggcca gatccagact tg 102

<210> 9773  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F5

<400> 9773

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 acaagctcct atagcttccc ttcttcccc atacctctca ccagctgtgt cttcagtgtg 180  
 tgaaaaccca attgttcaac cctacaggat ccaactggca atcgcaaacac gcatgttacc 240  
 attatcacc ttgttctac aacaaccgtc agccctatta caagagttac cttaggtcca 300  
 tttggtggca caaacatca tggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
 tgcatactct cagcaacatc agttttattcc attcaacaa ctggctgcat tgaactctgc 420  
 t 421

<210> 9774  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-F6

<400> 9774

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 tgtgtcgtcg tcaaggacta cggatgaagaa tctgagggcc ttaacatagt gcaggagtat 180  
 gtcaagtcgc actagatgtg tgacatgttt cagtgatact cttgatttgg acctgggctt 240  
 aaaattatgc ttttgcattc ggggcttgcc taagagatta gaacatttta ctagaagagc 300  
 cgaagaggat atgtatgaac aatttggaca tctgaatttt ttttgtttat ggtgctgtcg 360  
 tctggttnta atgcaaatca tgaagagccg agttt 395

<210> 9775  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-F7  
  
 <400> 9775  
  
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 cgctgctgg ctgtacactt acgcggagta cctgaggcag tcgaaataca gcacgatggc 180  
 ggcgactcca tactactccg tgtgagggca gactaacgct atgtaccagg cgctgcggta 240  
 acagtgctgc catcagcaga tgaggatgat ggacgtacaa tacgtttcgc atcagctaga 300  
 gatgaagatt cagcttgagc gtgccgctga cgtcagcatc agcctgtact agccactggt 360  
 gatgcatcat cagcagcatc tgatggcagc tcatgtctctt aaccccatgg ccatgatgat 420

<210> 9776  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-G11  
  
 <400> 9776  
  
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 atgctccagc tgtttaggtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa caaaatataa aaaaaaacaa aataaatttg caataaaaac 240  
 aacattataa aaaataaata aaaaaaaaaa aggggcgccc tttttaaggg ttcc 294

<210> 9777  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-G2  
  
 <400> 9777

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 actcaaagtg cgggtggcaat cttgacagca gcacaatacc taccatcaat gtgcggcttg 180  
 taccactcat actaccaaaa taatccatgc accatcaatg acattagtcg tgtttgcaat 240  
 tgaagaattg tgtctaccta accggttatac ttctataacg gtgttaagca ataaagtacc 300  
 atacatt 307

<210> 9778

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G3

<400> 9778

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 aagtgttgct accgcaacca ttttcccaca atgctcacia gctcctatag cttcccttct 180  
 tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa aaccaattg ttcaacccta 240  
 caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300  
 accgtcagcc ctattacagc agttaccttt ggtccatttg gtggcacaaa acatcagggc 360  
 acaacatctt caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcag 418

<210> 9779

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E6

<400> 9779

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 tcttcccccg tacctctcac cagcgggtgc ttcggtatgt gaaaacccaa ttcttcaacc 180  
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acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcag 300  
ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacagca 360  
gtttcttcca ttcaaccaac tagctgcatt gaactctgct gcttatttgc aacaacaact 420  
acca 424

<210> 9780

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D10

<400> 9780

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ggccaaataa ctaccacccg gtttagccgg ctccgctgac accgacgaaa ctgccctctg 120  
tctacaggat gcacaattac aaggccatga aggcccacga gctgggtctgc catgagtgct 180  
gaagtggaag gaagtggacg tcgttgaaca ccgtgaaggc gagatacaca ttaggaccac 240  
cga 243

<210> 9781

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D3

<400> 9781

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tcgtagtgga agttgttaca ccagatg 87

<210> 9782

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D4

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acacgataag ttgctatgca acatggaaat tctgcatac ctgctgatg tccctgacta 120  
cctaattgat ccgaaaacaa aagaagccaa caatgctgtc aagctttcca aggctgctat 180  
gcatatcgac aagccccaaa agcggaaaaa gcaagggttt aagggaagat caaggaaaag 240  
cagagaccct ctcaagacat tctctgctga aggcaaacta aggaaacgga agaaagaaag 300  
ggaaggagaa ccaaatagaa gaaagaagag taagagggcg gaagttgatt tttcaagcag 360  
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<210> 9783

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D5

<400> 9783

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ttattacaca tgtacagcgt acatggattg atagaggagt cagactacac acattatcat 120  
gtacattctt accaataata tatgcatgat cataataaac ttttagtttt aatgaatcaa 180  
tataaacaac taatatcttc actcttaaaa ttaataacaa tcttcactat aattcttatt 240  
tatatatata actattttaa agcaaataat ttttttaaca attatattat aaatactttc 300  
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<210> 9784

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-D6

<400> 9784

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ctcctagcaa ggatgcccc atgtttgtcg ttggtgtcaa cgagaaggag tacaagtctg 180  
acattaacat tgtctccaat gctagctgca caaccaactg ccttgctcct cttgctaaag 240



tcatcaatga caagttcggt atcgttgagg gtctgatgac cactgtccat gccatcactg 300  
ctacccagaa gactgttgat gggccctcat ctaaggactg ganggggtgga agggctgcta 360  
gtttcaacat cattcc 376

<210> 9785

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D7

<400> 9785

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tggtagcaag ctgaaagatt actttgtatc gtactatattt aattatattt tgtggagata 120  
aagaaattat tatgagct 138

<210> 9786

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-D8

<400> 9786

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tccaagttcc attattacac agttcctccc accagttact tcaatgggct tcgaacaccc 180  
agctgtgcaa gcctataggc tacaacaagc aattgcggcg agcgtcttac aacaaccaat 240  
ttcccagttg caacaacaat ccttggcaca tctaacaata caaaccatcg caacgcaaca 300  
gcaacaacaa ttctaccag cactgagcca cctagccatg gtgaaccctg ccgnctactt 360  
gcaacagcag ttgcttgcac caaaccact tgctctggca aacgtagttg caaaccagcc 420  
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<210> 9787

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E10

<400> 9787

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aggccactgg tgaggatttc tctgttgagc cagctgatga gaggaggcct ttccgtgctc 180  
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gagctttgga tgggtggcctg gatattcctc acagcgagaa gaggtttgct gggttcaaga 300  
aggatgacaa gcagctggat gctgatatcc atcgcaagta catctatggt ggccatgttg 360  
ctgactacat ga 372

<210> 9788

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E12

<400> 9788

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cgcggaagag ggaatgcgag agcgagtgcc gcgagcggca ccagcaagct gacgcgggcg 120  
aggacggcga cagcggcgctg gacgcctacg tctcccgcctc cgggaggggc gagtgccggc 180  
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<210> 9789

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E2

<400> 9789

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tgctgtaatt tctccgaacc aagtaattgg tagtgcttgt actccggaac agaaggctgc 120  
catcctaaat caatgcgaag agtacatcaa gcctggatac ccccttatac tgccatcgta 180  
cgccagtgtg tggtgcgaca aggtgagaga tgtgccaaat agggacatga actgcatcgt 240

cgatctgctc acgcctccaa aaaaagcgaa acacggtgtc gacaagataa aacgtctgaa 300  
agatctctgc gacaacttcg ctcatcatca gacagacagc aactgtcatt gctaattggaa 360  
gttcgaggca agatatatgg tctagtaaataa aaagtcgtcg atcaaagcat gacaactgtc 420  
aaatgtatct ttg 433

<210> 9790

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E3

<400> 9790

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aacgttgaca cgggcgacag cgccgacgag gccgtcgccg aagctgctgc tgaggagaaa 120  
gagaaggagg aagtccagcc gaagcccgtc gacggttccg gctccggctc cggctccggc 180  
ggcggcgacg ccaagccggt gtgctacgag acgagccgtc gttccgacac ctgcgaggcg 240  
gctggcgacg tgcgcgtcct tgggagcacc cagacggtgt acgtggactc gctggaccgg 300  
gagtggaaga ccaagccgta ctgtcggaag cagcacaact tcgcgctcgc ccacgtcaag 360  
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<210> 9791

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C9

<400> 9791

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acaatctctc acttctatcg tcttacaaca accaattttc catttacaac aacaatccta 180  
tatacatcta accatacaaa ccatagtatc taactatctt aacaactcat tcaacaaaac 240  
atgataaacc ctataccta ctttcaacaa cagatt 276

<210> 9792  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
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 tctgaaggcc aagctgaaga tgtcatatgc tgttcgcgtg tcatgtcccg aacatatttg 180  
 tgtttttttg ggaaagaaac atacaatttt ttgttctcat tctagtatcg tctacctatg 240  
 tcaaactaca atatgatagg acccttgcta aataattgtt tcgtttgctg gtattttctca 300  
 tctttgatgc taggcatgtt ggaaagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
 aataaaaata aaa 373

<210> 9793  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B4  
  
 <400> 9793  
  
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 ctgagtttga ggacaagctc taaaattttt ggctgttggt gatactgttt catctgccgg 180  
 tttaatcatc aattcgtcta ctgtaatagc agcgacttca atattttatt ttgttttagt 240  
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<210> 9794  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B5  
  
 <400> 9794  
  
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gtctagcagc agccaccgcc gcctcctcct cgcagccgcc gtccctgctct ccgtgctcgc 120  
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacccggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360  
ggagggccgt ctagaggacc tgccgggctg cccgcg 396

<210> 9795

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B6

<400> 9795

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aaaaaaaaata tcttgtcgcg tcttgtttta agaagacaac caaatgtgaa ccatacatgt 120  
gtgtcaggat aaattttctt ctctctctct ctctcataag cctgtcatg ttctgtattg 180  
caactttgtg ccatcaatga cgatgcaggg agtagattta acatcagaga tgggataaca 240  
tgttgtcata ctctagtctg caaacatcaa gtctataccg tttgattcct gaaagtggct 300  
gcacccattt tcttcgagta catcgcaggc attttctttt cgcattttcc gctcttcaac 360  
cactgcttca accgagtctg 380

<210> 9796

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B7

<400> 9796

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cacaaaacat cagggcacaa caactacaac aacttgtgct agcaaacctt gctgcatact 180  
ctcagcaaca tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240

tgcaacaaca attaccatc agccagctag ttgctgccta cccccagcaa tttcttccat 300  
tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 360  
tcagccagct agctgatgtg agccctgctg ccttcttgac acaacaacag ttgttgccgt 420  
tctacctgca cgc 433

<210> 9797  
<211> 419  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-039-Q1-K1-B9

<400> 9797

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cgcacaatag gagtctcaga gagaaacgac tgtcccaagt tcgatctcat ccttctcacc 180  
atgggctccg atgggcatgt ggcctcgctt ttcccgaacc accctgccat ggagctgaaa 240  
gacgactggg tcacctacat caccgactct ccgcagcctc ctcttgagag gatcaccttc 300  
actctcccag tgatcaactc agcatccaac atagcaatag tgtccactgg tgatgacaaa 360  
gcaaaggctg ttcacatagc agtttctgac atggcncgaa gtcttgatgc tctacatc 419

<210> 9798  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C10

<400> 9798

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acccaacctg tgatcccaag tctctacagc atgctctggg aaaggagcc atagagtatg 120  
aagagtttct gaaaaccggt gaccggagt tcagttggaa gccaccgaag gacgagtggc 180  
agagcatcgc cctaggctac acttctggga ctacttcag cccaaagggc gtcgtgttgc 240  
atcaccgcgg tgcttatctc atggcactca gcgttgccat cgtgtggggg atgcctgaag 300

gggctgtcta cttgtggact ctgccatgt tccattgcaa tggttggtgc tacactaggg 360  
cgctggcagc gttctgcgga acaagcatat gtcttcgcca ggtgagcac 409

<210> 9799  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C11

<400> 9799

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gtttacttga tgctggtaaa tgatctaatt catggacttt atcctgaggc tgtaaccatt 120  
ggtgaagatg ttagtggaat gcctacattt gcccttcctg ttcacgatgg tggggtaggt 180  
tttgactatc ggatgcatat ggctgtggct gacaaatgga ttgaccttct caagcaaagt 240  
gatgaaactt ggaagatggg tgatattgtg cacacactta caaataagat gtgggttagag 300  
aagtgtgtaa cttatgccta aaggcatgat ccagcattaa tcggccacca gacttatgcc 360  
gtttgggtga ttgaccagga tatgtatgat ttcac 395

<210> 9800  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C12

<400> 9800

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tgctcacaag ctctatagc ttcccttctt ccccatacc tctcaccagc ggtgtcttca 180  
gtgtgtgaaa acccaattgt tcaaccctac aggatccaac aggcaatcgc aacaggcatc 240  
ttaccattat cacccttggt cctccaacaa ccgtcagccc tattacaaga gttacctttg 300  
gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360  
cttgcttgat actctcaagc acatcagttt ctt 393

<210> 9801

<211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-C2  
  
 <400> 9801  
  
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 caccctagat cgagctactc accctagacg agcagactca caacatgtac cagtgtgaga 180  
 ctatctgcct caccaatcac ttacatcaga cctgtgccaa gcaccgtccc aagttcacac 240  
 tgatgcacgc actgctcctg gatcatcagc cggagctcgt tgatgaagac cctcttatgg 300  
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<210> 9802  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-C3  
  
 <400> 9802  
  
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 tccgtgctga agatgtgcag ggcaggaatg tgctcacaaa cttttggggc atggattnta 180  
 ccactgataa actcagatcc ctagtgaaga agtggcagac attaatcgaa gcccatgttg 240  
 atgtcaagac aaccgacaac tacatgttgc gtctgatctg catcggttc accaagaggc 300  
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<210> 9803  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-C5  
  
 <400> 9803  
  
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tgatttgctg ctgcaacaag atggatgcta ctacacccaa gtattcaaag gcccgttatg 120  
 atgagattgt gaaggaagtc tcttcctacc tgaataatgc tggatacaac cctgatcaga 180  
 tctac 185

<210> 9804  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-C6  
 <400> 9804

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 atggaaagaa acggtcaagc ttttcctcac ttgtccacct ttcttcctgt gaccacacaa 120  
 tcaaacagct ctctgaacc atgatgttcg aacagcttgc cggatgtggc gctcgttctt 180  
 ctgcaacagt tcatcgacct tgtgcgactg ggacaacaaa aggcccgagt actcgacctt 240  
 ctcttcttga ccatgaccgg ccttgaagcc attcttcgat gaaaaaatac ccccaaagaa 300  
 catggcgctt gaaaagttat gggaatggta agtgtcgcaa gaatcgaacg aatctgggcg 360  
 ctctaac 367

<210> 9805  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-C7  
 <400> 9805

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 agggttcgtc tgggtggcgcc gccgcagcca aagtcggggc tcttcgttgg catcaacaag 120  
 ggtcatgtcg tcaccaagcg cgagctgcct acccgcccgt gccaccgcaa ggggaaatca 180  
 acgaagaggg tgtctatggt caggggcctg atcagagagg ttgctgggtt tgctccttat 240  
 gagaagcgta tcaactgagct tctgaagggt ggcaaggaca agcgtgccct gaagcttgct 300  
 aagagaaagc ttggaac 317

<210> 9806  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C8

<400> 9806

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 aatgctcact tgctccgagt gccattatc cacagttcct cctccagtt acttcaatgg 180  
 gcttcgaaca cccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct 240  
 tagaacaacc aattgcccc aaacaacaac aatccttggc acatctaacc atacaaacca 300  
 tcgcaacgca gcagcaacaa gcaactgagc acctagccgt ggtgaaccct atcgccctact 360  
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 aa 422

<210> 9807  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B3

<400> 9807

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 caagattcat ggaacgctcc caatcccatg catgtcagcg cccaacacac aggggaagagg 180  
 ccaggctacc aggtttatca gaagctgttt caataaccgg agaatttttt ttccatgcc 240  
 atgcacactg tacagaggtg atgctggacg aatcgagctg gagccttggtg tccggtgccg 300  
 agaagcccg gacgatgtcg ctttgagctt actctaactg gttcggact 349

<210> 9808  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H8

<400> 9808

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gcaagattgt ccctgccact gctatccctg atgactggat gggctctgat gttggccctg 180  
atgccaccaa aacattcaac gaagcattgg acaccaccaa gactgttatt tggaacggcc 240  
ccatgggagt gtttgagttc gagaagtttg cagctggcac tgaggcgatt gccagaagc 300  
tagctgagct tacaaccacg aagggtgtca ctaccatcat cggcggcggc gattctgtcg 360  
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<210> 9809

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H9

<400> 9809

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atacctcatg aaattcttcc aaagctcagc cccaaggct atgctgttct tgaacttctc 180  
caccggacct tttgattctt tcaagtctgc ctactctgct gccgcggagg aattcaagga 240  
cacggaaatc aagttcctta ttggtgacat cgaagccagc catggtgcct tccagtactt 300  
tggcctgaaa gaggaccaga cacccttat actcatccag gatggtgact ccaagaagct 360  
cttgaagggtt cacgttgagg ctgaccagat cgtcgttagg ttgaaggagt actttgatgg 420  
ca 422

<210> 9810

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A10

<400> 9810

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accttgtttg aggcaaacat ggccgctgcc gtgacacctc aaagaatgtg gttgcttgag 180  
ggcatcgctg gtgtctttat ccggttcaca gtcacctggg acaggaagct gcagagttca 240  
gcagttggac acggtgtggt tccttgccctt gagaagttgc tttcacaagg atcgggtggac 300  
gccaagtcta aagcggcaac atccttgccc caactgtcac agagcacgat ggcgctgcgc 360  
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<210> 9811

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A12

<400> 9811

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tctacaagcg cctggacgtg ttcgtcacct accgcgacga ggccgtgacg gtgcccgtgt 180  
ctctgccgcc gcagtaccag ggccaccgcg acttcaccgt ctgggtcccc gtgctgtcgg 240  
ccgagtcctg gcccggttgc gcctacgtcg ccgacgcat gaagcaggac gtcgccgcgg 300  
gcttcgtcgc gctgcaggtc aaggtggacg gccgcgtcaa gtggaaagtc ggcagctggg 360  
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<210> 9812

<211> 397

<212> DNA

<213> Zea mays

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<400> 9812

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ttgctgtagt aggagccgtt ctggcatcca tactctccag tgccctttta ggtgcttatg 180  
ctgcagttgt agcttatcag gaatcctccc ttatcctggg aattgcctat gtgttctcgt 240

cagtgtctat atttgatgaa tacacaaatg atgttcttga catggcgctt ggttcttgtt 300  
 ttccaagatt taaatatcgg aagggcaaag atgagtcctt acacgggcac agtgttccat 360  
 tatccagacc agcctcattc aacagggaga agcaaga 397

<210> 9813  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-039-Q1-K1-A8  
 <400> 9813

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 ttaccacaa tgctcacaag cttctatagc ttaccttctt ccccatacc tctcatcatc 180  
 ggtgtcttca gtatgtgaaa acccaattct tcaaccctac aggatccaac acgcaatctc 240  
 atcattcatt atacctttat cacccttgat cttcaacaa cttcatccc tattacagca 300  
 cttacctttg atgcatttga tggcacaaaa catcaagaca caacaactac aacaacttgt 360  
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<210> 9814  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-A9  
 <400> 9814

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 cggagtacgt acccacgtac gaggacaagg atggcgactg gatgctcgtc ggcgacgtcc 180  
 cctggaagat gttcgtggaa acctgccagc gccttcgtct gatgaaaggc tcagaggccg 240  
 tgaacttggc accaagagcc gnccgatgag gcacactccg ttgggcgttg gcacgcacgc 300  
 acgcactggc gtcttgaagg aaagggggac tctgctggct tgatgaggat cttcacgtga 360

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400

<210> 9815

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-B1

<400> 9815

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ccgtccctgc tcgcgcgccg ctggcgccg ggcgcggccc gctgctgggc ggggtggaacc 180

cgatccctga cgtgagcgac tcgcacatcc aggagctagg cgggtgggcg ctggggcagg 240

cgaagcacca gaagctggcc gacgacgggc tgcggttccg ccgcgtggtg cgcggcgagc 300

agcaggtcgt gtccgggatg aactaccgnc tctacgtcga cgcgctcgac cccggcggcc 360

gtaccgtgcc cta 373

<210> 9816

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B10

<400> 9816

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gcatctgcca cctgcggctc acctgccacc tgcggtgcat atcccaccgc cggttcacct 120

gccgcgcgc gtccacctgc caccgacggt ccatgtgccg tcgccggttc atctgccgac 180

gacaccatgc cactacccta ctcaaccgct ccggcctcag cctcatgccc agccacaccc 240

atgcccgtgc caacagccgc atacaagctc gtgccagctg catggaacct gcgagcggtg 300

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gcgacgccct actgctagac tc 382

<210> 9817

<211> 196

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B11  
  
 <400> 9817  
  
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 ctccgatctt gcatatctga aggtgctatc atagaggaca gtttactaat gggcgccgac 120  
 tactatgaga cagaagctga taaaaaactc cttgccgaaa aaagtggcat tcctatgggt 180  
 attgggaaaa atcatg 196

<210> 9818  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B12  
  
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 ctccgatctt gcatatctga aggtgctatc atagaggaca gtttactaat gggcgccgac 120  
 tactatgaga cagaagctga taaaaaactc cttgccgaaa aaggtggcat tcctattggt 180  
 attgggaaaa attcatgcat caggagagca atcattgaca agaatgctcg aattggagac 240  
 aatgttaaga tactcaatgc tgacaatgtt caagaagctg caatggagac agacgggtac 300  
 ttcatcaaag gtggaattgt cacagtgatc aaggatgctt tactccctag tggaacagtt 360  
 atatgaagtg aacgtgagac atgcaactgt gtgtctcgac attcgacaat gatcag 416

<210> 9819  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-039-Q1-K1-B2  
  
 <400> 9819  
  
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 cgagcacaag gcccttggtg ggctttgccg gcaggctcgt gtactgctgg aacggggcca 120  
 ttgagaactt ggtctgactc cagaattcag gaggtaggaa gccgtaggtc ttcatcaggc 180

agtcgaaggt tgccttgacg aagttgccaa gggctcttagt ggagccacgg gacgaggtga 240  
agacatcctc aatgccagcg aactgcagca ccttcttggg cacgcgcgcg gcgacgatgc 300  
cagaaccctt gggcgcgggt accatgcgca cggtagacga gccacacttg ccagtacct 360  
tgcaaggcac ggtgtgcggc tgtccgatct t 391

<210> 9820

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-H7

<400> 9820

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gagccgagaa gccgaggggg cgaaggagca gcaaggcatg gaggagcccg ttccggctga 120  
tccccccagg attttctgga agtcaaggag ttcaggttca ggaccgtgag atcaatgggc 180  
tgaacgagca gctagaggaa gactcccgcg tgctggagct tctgcagaag cagctggctg 240  
acgagcgcag gaagcggaca gagatcgaga aggagaactc catgctccat gagcagggtca 300  
ccatgctgat gaacatgctc gacgagaacg agggtttcga cgaggacgga gaggccccgc 360  
cgcccgattc cttcgattaa gcgttggttac agtactatan tccgtttctt tttcccggtca 420  
gtgtgaaatc atacgtctct a 441

<210> 9821

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F8

<400> 9821

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gattgtgcac acagcgtgag accaatccag ctgctttgtg taactatagg agaccaagtg 180  
atcattccac ctaccgtgta atccagataa tgcgtacatc gtatcatgac tttgagatgg 240



tgccctagat atgatgatat actgcgatgt cagcgactgc acaacttatg taatcaatat 300  
agcaaggatt ag 312

<210> 9822  
<211> 408  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-038-Q1-K1-G1  
  
<400> 9822

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tgtcaacata actggaaatg gctatctaga gcagagattg cagcctggat tgagtggttt 120  
acagtctatg ggttattcat ctacagatacc tattcaacct ggtggtacca ctgcaaacct 180  
gatgcataat catgtcaaaa ttactggaga gactgtcccc tctacacttg attcagttgt 240  
accttcaata gcaccatcag gtggcatgcc aatcaaactt acagaagcac cactaactgc 300  
ttcgaagaag aaccctgtta gtcgtccatc aaagcctgtt ggaccacctt caggatttaa 360  
tcatgtaacc ccaaagcgtc aagatgattc tattccggtt gaaaaact 408

<210> 9823  
<211> 417  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-038-Q1-K1-G10  
  
<400> 9823

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tggacgatga tgagcggat aaccgaaaac tcgaagctgg gctttacaca ctgcagttaa 120  
ttgcgcttat tctgggacac atatggcact ctgggaattc ccagatgaga gcaagagtag 180  
aattacttct taagcagaac atacttacia agcaagatgt gaagagcata cttgaggagt 240  
accatgacaa cattggagat ttggatggac ctgaagagaa ggatagagca caagtgtga 300  
ccatggaaat tattgacgcg tcgtgatgtg catgggccta gggtagttgg ttgtggagca 360  
agacagaggc tggtagatat tttgagtatg ttgagtgaat ttatatgcac agtcagc 417

<210> 9824

<211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-G12  
  
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 cctcgacagc ccgaaacctt ggccgccgat cggtttcgga gaagagaacc aaatcaggat 120  
 gtttctcggg tcgttcccgc ggggcccgcac caaggaggct gcttacaagc agctgcgggc 180

<210> 9825  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-G3  
  
 <400> 9825  
  
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 gcctgcgtgc tcgggccagc gatgtcatag gtcttctata gcgtcaactg cattcaatat 120  
 agtggccgtc acagtacatc gtcgatactg ctaaaacact tatactaccc aactgaacca 180  
 ccttgaccca catgcatatt tatgcagctg gcactatagc gactaggccc tctccactcg 240  
 atcttcccaa cacttgaaca gcctcaatag ctaatgtgac gcgcactctt acagaacctt 300  
 cagcaactgc ttogaagaag atccctgcaa cgtgaccatt acactctgca gcaccat 357

<210> 9826  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-G6  
  
 <400> 9826  
  
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 tccttgctgc ctgctacaag gcgctcaacg agcaccatgt cctcctggag ggtaccctcc 120  
 tgaagcccaa catggtgact ccaggctccg actccaagaa ggtgactcct gaggtgattg 180  
 ctgagtacac cgtccgtacc ctccagagga ccgtccctgc tgctgtgcct gctgttgtct 240

tctctctctgg tggacagagc gaggaggagg ccacccgcaa cctcaatgcc atgaacaagc 300  
tcagcaccaa gaagccgtgg tccctgtctt tctccttcag ccgtagccctc caagcgagca 360  
ccctcaaggc ctgggctggc aaggtggaga acttggagaa ggctagagct ggcttcctcg 420  
ccaggtgca 429

<210> 9827

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G7

<400> 9827

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tgacttgaca gatcctgctc ctgctaccac ctttgcccat cttgatgcta ctactgtgtt 120  
gtcacgtcag atttctgagc ttgggtattta ccctgccgtg gatcctctgg attccacatc 180  
cagaatgttg tccccccatg ttctgggtga ggaccactac aacactgctc gtgggtgttca 240  
gaaggttctt cagaattaca agaatctcca agatattatt gccattctgg gaatggatga 300  
gctcagtga gatgacaagt tgacagttgc tcgtgctagg aagattcagc ggttccttag 360  
ccagcctttc catgttgctg aagttttcac ggggtgcacct ggaaagtacg ttgagctgaa 420  
cgagagcgtt aaaagttt 438

<210> 9828

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G8

<400> 9828

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tcgggcactt tgccggcgac gatttccac cagctatttc tactcggatc cgatctatct 120  
acaagcccaa caggatcaga ggaggtgatg gcgaggagt acagctgcct ggcgcgcgtg 180  
ggtagccgaa ttgctatcgg tggcgcggtc ggcggagccg tcggtgcttg ctatggaact 240  
tttgaggcgt tcagatacaa gatccctgga ttgctaaaga tcagatacat tgggcaaacc 300

accgttggca gcgctgcgat ttttgggctt ttcttggggg ctgggagctt gattcactgt 360  
ggaaaatcct actagtttgt ttcccttttt ttttctgaag tctgaacaca cttttgtcga 420  
tgggcttcag tgaaaacta 439

<210> 9829

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G9

<400> 9829

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tatccaggca cgtgtcacca ctactgatgc cattggctac catgaaccca tggatgcagt 120  
actgcatgaa gcaacagggg gttgccaaact tgtagcgtg gccgaccctg atgctgcagc 180  
aactgttggc ctcaccgctt cagcagtgcc agatgccaat gatgatgccg ggtatgatgc 240  
caccgatgac gatgatgccg atgccgagta tgatgccatc gatgatgggtg ccgactatga 300  
tgtcaccaat gacgatggct agtatgatgc cgccgatgat gatgccaagc atgatttcac 360  
caatgacgat gccgagtatg atgccttcga tgataatgcc gaccatgatg tcaccaatga 420  
ttatgccgag tat 433

<210> 9830

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H1

<400> 9830

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ggtgacaatt gcacaggccc agaatttgat tcaagctggg gtggatggat tgcgtgttgg 120  
aatgggatcg ggctcaattt gtaccaccca agaggtttgt gctgttggaa gaggacaggc 180  
aacagcagtg tataaggttt catcttatgc caaggatcac aatgtaccgg ttattgctga 240  
tgggtggaatt tcaaactctg ggcatattgt gaaagctctg tcgctggggg catccactgt 300  
tatgatgggc agcttttttag ctggtagtca tgaagctcct ggtacttatg agtataaaga 360

cggccgccga gtcaaaaaat acagaggcat gggctctctt gaagccatga caaaaggag 420  
tgatgcaag 429

<210> 9831  
<211> 198  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-038-Q1-K1-H11  
  
<400> 9831

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ccaggatattt ttccctocta atgctcctgg ctctttcggc atgtgtggct aacgcgacaa 120  
ttttccctca atgctcacia gctcctatag ctccctttct tccccatac cttncatcaa 180  
tgatagcttc agtatgtg 198

<210> 9832  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-038-Q1-K1-H2  
  
<400> 9832

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ctgtaaagaa aagcaagaat atactctttg tcatctccaa accagatgtg ttcaagagcc 120  
cgaattccga cacgtatgtc atattcggcg aggctaagat cgaggacctc agtcccagc 180  
tgcagaccca ggcagcagag cagttcaagg ctcttgactt gagccagatg atctcgaatc 240  
cagagacgtc tggcccggga caggaggaca atgatgaaga ggtcgacgaa actggtgttg 300  
aggccaagga cattgagctg gtgatgaccc aggcattctgt ttcaaggccc aaggctgtca 360  
aggccctcaa ggcttcta at ggggacattg tcaactgccat catggatctg acaacctnag 420  
gtgatatttc 430

<210> 9833  
<211> 444  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H4

<400> 9833

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gggttcgtca gagacacgat ggagtcgata cgctgcatgc agatccgccca agtgctcatg 120  
cagatcatca gcctcgggtat gattgttacc tctgcattaa tcatatggaa gggtttgata 180  
gttttcacgg ggagcgagtc accagttgta gtggtgctct cgggtagcat ggagcctgga 240  
tttaaaaggg gtgatatcct gtttttgcata atgagcaaag atcctattcg cacaggagaa 300  
atagttgttt tcaatgtcga tggtcgtgag attccaattg ttcaccgagt gattaaggctc 360  
catgaacgctc aggacactgc agaagtggac atcctcacca aagggtgacaa taattttggg 420  
gatgaccgac tattatatgc acat 444

<210> 9834

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-H5

<400> 9834

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tggcgacgctc gaacacggcg cggatggagg acggcggcgg cgacctgcgg agcaccatca 120  
agaagtggaa tatcatctac cctgtctacc tcaactccaa gaagacggctc gccgagggcc 180  
gccgcacgctc cgctgccaaag gcctgcccgg accccacctg catcgagatc gctgactgct 240  
gttcgcacct caagatcccc cacgccatcg agttggataa ggcgtaccct cgggatttct 300  
tccagggtggg gagggtcagg gtgcagctta agaaagatga cggctcccc gtcaatcctg 360  
ctattaaaac gaagaagcag ctgatgatcc aagtagcaga gctagttccc aagcatcacg 420  
ngaggacaaa ga 432

<210> 9835

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H6

<400> 9835

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ttgagcctgt tcttagccct ctcctttgta gcagctatgt ttgccatagg ctctcatgct 120  
gatggagact gtgagaatga cctccaaagc ctgataagtg actgcaagac atacgtgatg 180  
ttcccagcta atccaaaggt cctccttcg gatgcttgct gtggtgtcat caagaaggca 240  
aacgtttctt gcttgtgctc caaggtcacc aaagaaactg agaaggttgt gtgcatggag 300  
aaggttgtgt atgttgctga gcagtgtgag aggccatttg agcatggctt ccagtgcgga 360  
agctacaagg ttccagcaaa ctgatgatat cgcaagaggg aagcgcttga cgt 413

<210> 9836

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F7

<400> 9836

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gatttgacac atcattggga aatgttggat caagagatcg aagccacgat catgcctctt 120  
gtgtatcgct acaagatttg ggtgctttgc aacgattgca acaaggcttc agaggtgaac 180  
tttcacgtga ttggccacaa gtgcagccac tgcagatcgt acaacacccg aacgacatcg 240  
cgccctgcag atttatcggg aagcagctca ccttcaacag actcatccga caacaacata 300  
tagagaagaa accattgaca gagccaatat gattgaagaa ccgaaggagg aaatattgtt 360  
tcggggcgctg cgtgcttgcc aaacttgaag actcccagcc gtttattggc cctcatcttg 420  
gct 423

<210> 9837

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E1

<400> 9837

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ctgcaacaac aattgttgca acagattgta ccagctctga ctcagctagt tgtggcaaac 180  
cctgctgcct acttgcaaca gctgcttcca ttcaaccaac tgactatgtc gaactctgct 240  
gcgtacctac aacagcgaca acagttactt aatccactag cagtggctaa cccattgggtc 300  
gctgccttcc tacagcagca acaattgctg ccatacaacc agttctcttt gataaacctt 360  
gtcttgcga ggcagcaacc catcgttgga agtgccaatc ttttagatac atatgag 417

<210> 9838  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-038-Q1-K1-E10  
<400> 9838

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cttggttctt caacaaccgg caggcctatt acagcaggta cctttggggc atttgggggc 120  
acaaaacatc aaggcacaac aactacaaca acttggtgta gcaaaccctg ctgcatactc 180  
tcagcaacat cagtttcttc cattcaacca actgggtgca ttgaactctg ctgcttattt 240  
gcaacaacaa ttaccattca gccagctagt tgctgcctac cccagcaat ttcttccatt 300  
caaccaacta gcagcattga actctgctgc ttatttacag cagcaacaac tactaccatt 360  
cagccagcta gctgatgtga gccctgctgc cttcttgaca ca 402

<210> 9839  
<211> 356  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-038-Q1-K1-E12  
<400> 9839

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ttgagaccct cttggcgctt atggactttt cggggaaccc aaaactaggg ttcataattg 120  
cccaaggcga acttgctcgt actgccatat ttacacagat tgtccaacca atccctaaaa 180



tgggcttcga acacctacct gtgcaagcca acatgcgtca acaagcgctt gcggcgagcg 240  
tettacaaca accaattgcc caattgcaac aacaatcctt gccacatcta acaataacaag 300  
ccatcacaac gcagcagcaa caacagttgc taccagcact gagccaccta gccatg 356

<210> 9840  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 9840

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gacggagttc gccgcgtaca aggtggccaa ggccgccctg aactcctact cgagggtcct 120  
ggcgaggcgg caccctgagc tgcgcgctcaa ctgcgcgcac ccgggctacg tgaagaccga 180  
catgaccagg cagacggggc tgctgaagcc cgcgcagggc gcggccaacg tcgtcaaggt 240  
ggcgctgctc ccggaaggcg gccccaccgg agctttcttc gcgctaggca aggaggcgcc 300  
gttcgtgtga cgctgccgta ctgggctggc ggtgggtggg acttcacggc ccggcgctag 360  
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<210> 9841  
<211> 320  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-038-Q1-K1-E6  
<400> 9841

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tattagcctc tgagggcaca ccttgcttca acatatttgt atacggaatc gatgacaagt 180  
atccatgctt caacatatta acttacaaaa tgacacacga catcaaacta tcaatctacc 240  
agcagatagc cggtgaccct gcaactacta tgacaacgta ctacaattgc tgccatatgt 300  
gcatctagct gtgacaaacc 320

<210> 9842  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-E7  
  
 <400> 9842  
  
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 gagccctgct gccttcttga cacaacaaca gttgttgccg ttctacctac acgctatgcc 180  
 taacgctggc accctctttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 240  
 aaaccagca gtgttctacc aacaacccat cattggtggt gccctctttt agattgctta 300  
 tgagttatag ttcaataatg aagttttttg gatgatgttt gtggct 346

<210> 9843  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-E8  
  
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 actattgttg ctaaaactca agaaattatg gataaagcta ttgagaaggt tgagttcctc 180  
 gtgggacgtg aaattgaagt tggtcgtaca taaaaggaa ttgtttcttc gattaaggag 240  
 tatggcgctt ttgtggagtt caatggtgga caacaaggct tacttcatat ttcggagttg 300  
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 agatgcattg gacaggacat gcgngtaac attaaac 397

<210> 9844  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-038-Q1-K1-E9

<400> 9844

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gtctcccacg gttgtagctg acatgggact cgaacttctg tcggtgacct ttatttttag 180  
cgtcattgtc tattttgcac tctacattgc cggcatcaag tccggccaca aaagttcttc 240  
tttgagacca catgttagtg ggagcttcat gcaagattgg tggtttggag tgcaacttaa 300  
tcctgattct atggaagttg acctcaaag cttctttgtg agggcacgaa tgatggcatg 360  
gttatctatt aacctctcta tgtttgcaaa gagccactgt gctggatcag ccaatc 416

<210> 9845

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F1

<400> 9845

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cacgagcaac gacctaacaa caatggctac caagatatta tccctctttg cgcttcttgc 120  
cctttttgtg agcgcaacaa atgcgttcat tattccccaa tgctcacttg ctcttagtgc 180  
cattattcca cagttctctc ctccagttac ttcaatgggc ttggaacacc cagctgtgca 240  
agcctacagg ctacaacaag cgcttgcggc gagcgtctta caacaaccaa ttgccaatt 300  
acaacaacaa tccttggcac atctaaccat acaaaccatc gcaacgcaac agcaacaaca 360  
atttctacca gcactaagcc aactagctgt ggtgaaccct g 401

<210> 9846

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F11

<400> 9846

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catctaacca taaaaacat ggcacgcag cagcaacaag cactgagcca cctaaccgtg 120  
gtgaacccta tcgcctactt gcaacaacag ctgcttgcac ccaacccatt gcttggca 178

<210> 9847  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F2

<400> 9847

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ttggcagcaa caactattac catttagcca gctagctact gcctactctg aacaacaaca 120  
acttcttgca ttttaaccaat tggccgtact gaaccccgct gcttatttgc agcatcaaatt 180  
actactacca ttttagccagc tagctacaac aagccgtgct ttcttcttga cacaacaaca 240  
agtgtgacg ctctaacaag agcttgccgc taaccccgca accctcttac aactacaaca 300  
attgctgccc tttgtgcaac atgctttgac aaaaacaata gcctcctacc aacaacacct 360  
tattggaggt gccctatatt agattgctta ttag 394

<210> 9848  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-F5

<400> 9848

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attcaaccaa ctggcagcat tgaactctgc tgcttattta caacagcaac agctaccacc 180  
attcagtcag ctgctgatg tgagccctgt tgccttcttg acacaacaac agttgttgcc 240  
gttctacctg cagctgcgc ctaacgctgg caccctacta caactgcaac aattgctgcc 300  
attcaaccaa cttgctttga caaacccaac aacgttctac caacaacca tcattggcgg 360  
tgccctcttt tagattgctt atgagttata gttcaataat gaagttattt ggatgat 417

<210> 9849

<211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-F6  
  
 <400> 9849  
  
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 cacaagctcc tatagctccc cttctttcca cgtacctctc accagcgggtg tcttacgtat 180  
 gtgaaaaccc aattattcaa ccctacagga tccaacaggc aatcacagct ggcattctac 240  
 ctttatcacc cttgttcttg caacaatcat cagccctatt acatcagtta cctttgggtgc 300  
 atttattggc acaaaacatc agggcacaac aactacaaca actagtgcta gcaaacccttg 360  
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420  
 cttcttattt gcaacaacaa c 441

<210> 9850  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-D9  
  
 <400> 9850  
  
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 gcgtgcgagt gctgctatcg caaccgttgt tccacaatgc ttacatgctc ctatagcttt 120  
 cttcttctct ccatacctat caccagcgcg gcttcatgcg tgaagaccca atggatgcac 180  
 cctacctgat acaacaggca ctgcgaacaa gcatctgagc agtatcacca ctgttgcac 240  
 aacaaccgtc atccctatta caagagttac cttagggtcga tgcgggtggcg caacacattc 300  
 tggcacaaca actacaacaa cttgtgctag caaaccttga tgcatactcg cagcaacatc 360  
 agtttctgcc attctaccaa ctggctgcat cgaactatgc cgcctatttg caacaacaac 420

<210> 9851  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C4

<400> 9851

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ctgcatacca agaagttggt ggtgctagtg cctcgcaaag tgccattgag gccagaaaag 120  
ctactgctgc ggcattctcag ctcaactcgca gtggttcatc aagggcaatg gaaaatgcac 180  
aggacggcgg ggagaggaag taacgagata gagctcgttt ttttttatcg tctatgctac 240  
atcttatgga tgcataatgat cctgcctgac gattctcagg tctcagctct ccgtggctcc 300  
gtgtgcaaat ctctgccacg ggcgtgtttt aacgcctgat tggatgggtg cccgctggcg 360  
cgcccgccca gcctcgtacg gccacttcgg acgcatctgc atcttcggag gtaccgcgag 420  
atgtagatga atggccgtaa aat 443

<210> 9852

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C6

<400> 9852

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tttatttaaa aaggtttgcc gttttatatg atccaaactt acataaacat gcattcgagg 120  
taataattat tctataatga cacctaaatt taattcactg accatttaat tacaatgcc 180  
taactgaaaa aactctcacc ttaccaatgt taatcgcatc ccatcacatg cccctttcta 240  
aatctgcagt aatactctaa aggatggtag caattatcct taccaatagt tccccaacct 300  
gaatcctaaa tgggactcgc attgtataag aacattaaca actt 344

<210> 9853

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C7

<400> 9853

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aggagctggc ccttgaggag gcgagacca tagcccttc tattctgaag caggttatgg 120  
aggagaaggt gaccccaaac aacgtcgata ttgccaaggt tgctcccaag taccacctct 180  
acaccctgc cgaggtcgaa gccgtgatcg cgaggctgtg aaacgctttc ggagctcgtg 240  
ttattcatgt catcaatcgg taatagacga tccttgtagc aagcgtggac atcttttggt 300  
cttgattatg gctgtcatcg tactctgttg ttaactccac aaggacagtc gatggtacta 360  
tgattcacac ctcagccga ttccgttgtc tgattgccta gtgcctacac ttgttttttt 420  
attttaccgt ttcggct 437

<210> 9854  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C9

<400> 9854

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gaactgctgg cgcagcagct caaggacaac ctccacagca gcggcgactg cactggccat 120  
ggcaccctct ctccggaaga agacgacggt ggcgtgggtca gtgacgaggg ctgcagcttc 180  
gctctcccg atgccatgtt cgctgccggg ttcacccacc atggcgccga ggaggtgcag 240  
ctggccaact ggacatccat gttctggaac tgatcagcgg atggatgcat ccaagtgcaa 300  
agatcggatc ctctcctagt ctcgaccctt ttctgcagca tataattacc gtgttaatta 360  
tgtgccgtcc gatgtttgta agtgctcat 389

<210> 9855  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D1

<400> 9855

aaaggaccgc ggcgcctcgc tcgagttcta cgcaccttg tgtggtcact gcaagaagct 60  
tgctcctgag tatgaaagac ttggtgcaag ttttaagaaa gctaaatctg tcttgattgc 120  
taaggttgat tgtgatgagc acaagagttt gtgcagcaag tatggagttt ccgggtatcc 180

aacaatccaa tgggtcccgga aaggatcctt ggagcccaaa aagtatgaag gacaacgcac 240  
 tgcagaagcc cttgctgaat ttctcaatac tgaaggaggc acaaatgtaa agctggcaac 300  
 cattccttca agtgttgtgg ttctcacccc 330

<210> 9856  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-D10  
 <400> 9856

gcaacaacca tccctagtgg atctatattt tcaaataatc gtagcacaac aacttccacg 60  
 accaggggtt tcaacaatca aaccagtaat tgcagcgaac cttgattctt aacttcagca 120  
 acaacaattt ctttcattca atcaactagc tgggggtgaac cctgctgctt acttgcaggc 180  
 acaacagcta ctaccattca accaacttgt caggagccct gctgccttct tactgcagca 240  
 acagttgttg ccattccatc tacaagttgt ggcaaacatt gctgctttct tgcaacaaca 300  
 acaattgctg ccattttacc cacaggttgt gggaaacatt aacgccttct tgcaacagca 360  
 acagttgctg ccattctacc cacaggatgt ggcaacaat gtcgccttct tacaacaaca 420  
 ac 422

<210> 9857  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-D11  
 <400> 9857

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 aggcaacaaca gctactacca ttcaaccaac ttgtcaggag cctgctgcc ttcttactgc 120  
 agcaacagtt gttgccattc catctacaag ttgtggcaaa cattgctgct ttcttgcaac 180  
 aacaacaatt gctgccattt taccacaggt ttgtgggaaa cattaacgcc ttcttgcaac 240  
 agcaacagtt gctgccattc taccacaggt atgtggcaaa caatgtcgcc ttcttacaac 300  
 aac 303



<210> 9858  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-038-Q1-K1-D2  
  
 <400> 9858

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 gtggccgctg gtgatgtgag cctgaaggag ctgtccaaga ggctcaacga cttcgccaag 120  
 gagagggact gggagcagta ccatagcccc cggaacctgc tgctcgccat gatcgctgac 180  
 gtcggtgagc tgtcagagct gttcatgtgg aaaggggagg tgcgcaaggg cctcgcggac 240  
 tgggacgaag cggataaaga gcaccttggc gaggagctct ccgacgtgct gctctacctg 300  
 gtccgcctat gcgacatgtg cggcgtcgac ctcagcgacg ccgccctcag gaagatcgtc 360  
 aagaacgccg tcaagtaccc 380

<210> 9859  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-D3  
  
 <400> 9859

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 ggcgccgccc cagctgtgcy gctggccgcy aggccaaacc ggcagcgacc accccgacga 120  
 tggacgggtg ccgcaccgtc agcagaccgt ggggagatgg gcaacgacga cagtgggtgt 180  
 gaggcgttgc cgccaggtcg gtccgtcgtc gtgacgacta caaagcccgc cgcagcagaa 240  
 ctttctgtga aggaggatgt cagattgtca gtattctagt ttgaggatat gatgatattc 300  
 ccaagtgagc atgggtggggt gtttctcat caacaagcac tccaaggtat aattgatgtt 360  
 gctccaatac cgggtgtgag aagagccaca actgatgtta cta 403

<210> 9860  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D5

<400> 9860

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ttctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag atgccctgcc 120  
cctgcgcggt gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180  
ccggcgggct gtacccttac acggagtacc tgaggcagcc gtagtgcagc ccgctggctg 240  
ctgcgcccta ctacgccggt tgtgggcagc cgagcgcctat gtgccagccg ttccggcaac 300  
agtgtgccca gcagcagatg acgatgatgg acgtgcaatc cgtcatgcat cagctgcaga 360  
tgatgatgca tcttgagcgt gccgctgccg gcagcagcag cctgtacgag ccagctctga 420  
t 421

<210> 9861

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D7

<400> 9861

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agtgggtggc agtggcacaa cctaataagc gcatgaacta attgcttgcg tgtgtagtta 120  
agtaccgatc ggtaatttta tattgagagt aaataaatgg acctgtagtg gtggagtaaa 180  
taaaaaaaaa aacaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaacaaag gcaacaagct 240  
gcaaaggatc aaaagctcaa gtactataaa gagcaacgat ata 283

<210> 9862

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D8

<400> 9862

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acgtatggaa gctgatatag ctgatagtga tcaagaacaa cttcttgctg gtgtatcact 120

caggcaacat cgatgccaac gacaatcaat accaacgagc gtataaactg tacagtgtac 180  
 actcgtactg atactatgca taagcacaca aagaagctgt aacgaatcat ctaggttgat 240  
 gcaaggaatg gcattgggag cactatacta acaataccta gatgcacagc aggcgatcaa 300  
 tgtagaacca caagtataat atggacaagt agtaaactcat gatggacact gggagcaaca 360  
 accaaatctg ctacaactat tacag 385

<210> 9863  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C3

<400> 9863

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 gagatgatca aagggcacct cactttgtga aagttgattg ggacaaatgg gttgacgaag 180  
 atgatgatgg tgctgatgac aacttgatg ggatggactt ctgaattttt ggcggtatgg 240  
 gtggtatggg tggcatgggt gatatggctg gcttgggtgg tcttgggtggc atgggtggaa 300  
 tgggcggtat ggggtggtat ggaaatggat gatttgagga tgatagt 347

<210> 9864  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A6

<400> 9864

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 tcacttgctc cgagtgccat tattccacag ttcttccctc cagttacttc aatgggcttc 180  
 gaacacccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag cgtcttagaa 240  
 caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca aaccatcgca 300  
 acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc ctacttgcaa 360

caacagctgc ttgcatccaa cccacttgct ttggcaaacg tagctgcata ccaacaacaa 420  
caacagttgc aacagtt 437

<210> 9865  
<211> 404  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-038-Q1-K1-A9

<400> 9865

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gaaaacagaa attgatggtc tgcaacagga acttggtcac gtgaggactg cttgcggggtt 180  
agagcagaag ggggaatttg aattgctgga acaaaggaag gcaatggaga agaatatgct 240  
ttctatggca cangagatcg agcagatgcg aggcgaatta gctaattttg aagttagacc 300  
aaggggcca ggtggagcat atgggatgca gattgggagt tcggaagtga cttcactaa 360  
gaacccatat gaagatgggt ataatgctta tgtggggggt cctg 404

<210> 9866  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B3

<400> 9866

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ttggcaacaa cagcaactac cattcaagca gctacctgct gcctaccagg agcaatgcct 120  
ttcattcaac caactggcag cattgaactc tgctgcttat ttacagtagt aacaactact 180  
accattcagc cagctagctg gtgtgagccc tgctaccttc ttgatacaac cacagttggt 240  
gacgtttctac cagcacgctg cgcctaacgc tggcacactg ttacaactgc aacagttggt 300  
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tggtgcccta ttgtagatgt cttatgagtt atagtcc 397

<210> 9867  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B6

<400> 9867

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 aactatgttg gcatgggcaa ggatcataca cttttctgcc tgaaagaagg caatgtacgc 120  
 tttgagcgca acaaactctc aggcaggaaa tgggttcatt ttgatccagt tgctgggtcat 180  
 gatcttcacc ccattttacgc agatgggtttt gctactacat ccgacactga gccaatgcaa 240  
 taaatgtgct tggggatttg ggctgtcatt ttgttccaac tcattcagct gccattttac 300  
 agtttcatgt gtaaacttta gcaggcttga acgtagctgg atcttttctt tgtaatcata 360  
 actactttga ataataaag ttatacactg taagctttgt tctcatgggt 410

<210> 9868  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B7

<400> 9868

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 ccgtcatgaa gcgcaacccc cgcgtcacga gctttcgccg gaagtgccgg aaggcgcact 120  
 tcacggccca gtactctgtc cggcgcggtc tcatgtccat ggcgctatcg acggagctat 180  
 gacacatgta caaatgtgcg ttccatcccc atcctgcata gacgacaagg tgcaagtcgt 240  
 gcgcggtacc tacaaggac ttgaggtcaa attggtgcac gtgtaacgac gttgctatgt 300  
 tatacacgta tagcgg 316

<210> 9869  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C1

<400> 9869

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agccgcagag gctgttgctc ttgccagagc agctgccgaa gctgcccag aagttgttca 120  
gatagtacaa agaaacaacc atcagccggc aattagacca aaaaagtgtg tggacaacta 180  
cttggcaaat gaaatccttc gcacagagat gcgatcgagc agtcctgaca tgtatgctaa 240  
taatcctttg atggagtatc tggactctta tggatcatg gatgctgaag atgaattaga 300  
tgcttatgca cagtatactg agaacatagc tgggaaatct gctcgtcaat ctgagagaaa 360  
agc 363

<210> 9870

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C10

<400> 9870

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tgatggggccg tcaaggagca ccaaactatc gagaccctag tgccggggct caaggacgac 120  
gtgatgaaga tcacgcccgt tcagaagcag acccgcgccg gacagcgcac ccgcttcaag 180  
gcctttgtcg tcatggggca ctgctacggc cacgtcggcc tgtgagtcaa gtgcgccaac 240  
gaggtggcca ccgtcattcc gggcgccat cattctcgac aagctctacg ctgttcccgt 300  
caggaaaggc tactggggaa acaagattgg gcagtcacac accgtgccct g 351

<210> 9871

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C11

<400> 9871

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gatcgtgcta aacgagcacc agatgatcaa agaccatcga tccggagact aaagtcgagg 120  
tgatgaacat cactcccgtt cagaagccga cccgctccgc acagcgcacc cgcttcaagg 180

cctttgtcat cataagctac tgc

203

<210> 9872

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-C2

<400> 9872

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ggcacgggtg cgaccgggtga ctatgggtgc agcgaggaag tgcgagtcgc agagcttccg 120  
cttcaaggga ccttgctcga gggacgccaa ctgcgcaaac gtctgcctga ccgaaggttt 180  
caccggcggc gtgtgcaagg gcctacgcc aagctgcttc tgcaccaggg actgctagta 240  
ctgcctcgcc tcgtgtcctg cgtgtgcata tatagccgca gccgatcaat taaacatgca 300  
tgcattgcgtt accaaatatt tggcagtacc agcaagttaa tgaattaaaa tattaaataa 360  
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<210> 9873

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A4

<400> 9873

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ggattttatc cagcagcgta taaacacgga gagcagcctg tctgccgtgt gcgagagagt 180  
gctggacaga tgcctggctc catcaacgat cgctggagac ggggtgcgaca acatgaccat 240  
gatcctgggtg cagttcaaaa aacctgtcga tcggaacaag aaggccgaag cagcagggca 300  
atctgccagc aatgtggacg aagccaagag tcgtgttgct gaggagtga gcatggctgg 360  
cactcaccag ggcgcaacca tttgctttca taaggcatgt gaaaaaaagg aacgaaaaaa 420  
cctgcagtgt acgtatctta act 443

<210> 9874

<211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H1

<400> 9874

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 tcaaggaagg ccagcacctc gccgagcacg agcttcagtc gctctgcaa tacgtgaagg 180  
 agatcctcat cgaagagtcg aacgttcaac cggatgaatag cctgtgacg gtttgccggtg 240  
 acatccatgg gcagttccat gacctgatga agctcttcgc gacggggggc cacgtcccag 300  
 agacgaacta tattttcatg ggtgattttg tggaccgtgg cttcaacagt ctggaggttt 360  
 tcaccatcct gttgctacta aaagcgagggt atcctgcaca cataaccctt ctgcgtggaa 420  
 atcatgaaag taggcagttg acaca 445

<210> 9875  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H11

<400> 9875

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 caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180  
 caattatagc ttcaatatgt gaaaaccag ctcttcaacc atataggctt caacaagcaa 240  
 tcgcagcaag caacatacct ttatcgccct tgttgtttca acaatcgcca gccctatctt 300  
 tgggtgcagtc attggtacaa accatcaggg cacaacagct gcagcaactc gtgctacctc 360  
 tgatcaacca agtagctctg gcaaaccctt ctcctactc tcagcaacaa caatttcttc 420  
 cattcaacc 429

<210> 9876  
 <211> 426  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H12

<400> 9876

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cgtaaggggt cgaaccggat ggagaggagg ggcggcggcg gcggcgagca ggagcaagag 180  
gatttggcga aaaaacttgt catcaaagtt gtgccgtctc aactggagca gcagcccctg 240  
ggtcagaaca aggcgctggg cgctccacat tgcacacctg ttcttggtga ttctggggaa 300  
gggaggagca aaagattcat tagccggttc acgtccatca acccttcgaa gattctcttc 360  
ttgttcggca cgctgtcgag cgtggggaca acgattctga tctactttac gctggcgatc 420  
aacagc 426

<210> 9877

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H3

<400> 9877

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gcttcccttc ttcccgcgta cctctcacca gcggtgtctt cggatatgta aaacccaatt 180  
cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg 240  
ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt attggcacat 300  
aacatcaggg cacaacaact acgacaactt gtgctagcaa accttgcttg ctactctc 358

<210> 9878

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H4

<400> 9878

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aagcactaca ctgtgtttct tgcaaacaaa acacaacaaa caaaaacata aactataa 119

<210> 9879  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H6

<400> 9879

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tccacttcaa gaacacaagg gagacagcct ttgcgcttcg caagttgtct ttgaccaagg 180  
ctaagcgata ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact 240  
gtgggggtgt tggtcgcacc gcgcaagcta agtctcgcca ctccaatggg cagggccgct 300  
ggccggttaa atcagccggg ttcacccctg atttgctgaa gaatgctgag agtaacgctg 360  
atgtgaaagg cttggatgtg gacaacctct atatttcaca catccagggtg aaccaagccc 420  
agaagcagag gcgcgcacc tacc 444

<210> 9880  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-037-Q1-K1-H7

<400> 9880

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acgcgcggtg gaacccgacc aaggagcagg tggccgtgct ggaggggctg tacgagcacg 180  
gcctggcac cccagcgcg gagcagatac agcagatcac gggcaggctg cgggagcacg 240  
gcgccatcga gggcaagaac gtcttctact ggttcagaa ccacaaggcc cgcagcgcc 300  
agaggcagaa gcaggacagc ttgcctact tcagcaggct cctccgcggg cccccgcgc 360  
tgcccgtgct ctccatgcc cccgcgccac cgtaccatca cggccgcgct ccggcgccgn 420

ccgcgatgcc gatgccgatg ccgc

444

<210> 9881  
<211> 203  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H9

<400> 9881

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cagggtttaca ttttttgagg agttctatgt ttttgatca tggatatttg tctcgaagat 120  
atgcctctgg tttcctttaa acttaatgcc tttgtaatca tttcgttctt agtatggttg 180  
gacctttctt gtctgtttat cta 203

<210> 9882  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A1

<400> 9882

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ccggggccgca tctctccccg acgagtactt cctcgtgctc gtggggcgaca tggtcacgga 120  
agacgcgctg cccacatacc ataccatgat caacacgctc gacggcctcc gcgactagac 180  
tcacgccagc aactgcccct ggccagtctg tacgcgcgcc tggaccgacg aagagaaccg 240  
ccacggtgac atcctctgca agtacatgta cctatccggc cgcgtcgaca tgcgcatggt 300  
cgagaagacc cgtcagtacc tca 323

<210> 9883  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A11

<400> 9883

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ttcaactcaa tggttgttca tccagactca gtacagcgtg ggaactatac atttccaccc 120  
 actcatatta gccattcatg gatgtcccat gctacaaatg gtattgctga tggagttccc 180  
 cagtgggaat atgccaatgc aactgctaatt attcaaggca gatttgccca ttcaggagcc 240  
 acagaaatcg caaatgttgg ttttcatgaa tatcagaatg gcccttcaac tatttgtcgg 300  
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<210> 9884  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-A2

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 gctggcgggc gggcgcgggc cgctgctggg cgggtggaac ccgatccctg acgtgagcga 180  
 ctgcacatc caggagctag gcgggtgggc gctggggcaa gcgaagcacc agaagctggc 240  
 cgncgacggg ctgcgggttc gccgcgtggt gcgcggcgag cagcaggtcg tgtccgggat 300  
 gaactaccgn ctctacgtcg 320

<210> 9885  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F4

<400> 9885  
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 ttctctatta cactctctgt ttgatttctt ggccttcaaa aatgatattc agttctggaa 180  
 caagaacaag tccatggaag gtctatcggc aaaatctgtg gttctgaatt ttgtgtgtca 240  
 actaattgtt ttctgtacc ttcttgacaa tgacacttca tggatgatcc ttgctagctc 300

tggaattggt gtttgattg agttttggaa gatcggaag gcgatgcata ttgaagtcga 360  
 tagaagtgga aaaattccca tgttgagggt ccgagatcgt gaatcatatg cacagaataa 420  
 gaccaaagag tacgatgc 438

<210> 9886  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-F6  
 <400> 9886

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 aggttctca agtgtgaac tatggtaatg ttcagtctca cacggtgttc agtagtgaag 120  
 aagcagtggc taaccgagag ctcatgcaac ctgagcgagg agcacgtgag agggaactgc 180  
 tacaggctgt caatcaactc ggtgatgcca atgaggtttt gaatgagcgt gctgtagctg 240  
 tgatggcacg gatgagtac aaactaacag ggcgtgactt ctcttctggg tcagctttgg 300  
 ctggagcagg tagctctatc caacatggca gtgagcattt ggcttcagga gatgcccggg 360  
 atgccaacc tggctctca gtgaagggtc aggttcagaa gtcatactc caagcgactt 420  
 cacacgaaaa tttgt 435

<210> 9887  
 <211> 433  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-F8  
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 gttcgtcaac aagcagggcc agacgcggct ggcgcagtac tacgagcacc tctccctcga 180  
 cgagcgacgg gccctcgagg gcgagatcgt ccgcaagtgc ctgcccgcga ctgaccagca 240  
 gtgttcgttt gtggagcacc ggaactacaa ggtcgtttac aggcgctacg cctccctttt 300  
 ctctctcgtc ggcgtcgaca gcgatgagaa tgagttagct atccttgaat tcatacatct 360

tctggtggaa actatggatc gccacttcgg caatgtgtgc gagctcgata tcatgttcca 420  
tctggagaaa gtg 433

<210> 9888  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F9

<400> 9888

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caccgtcatc cctattacag cagttacctt tgggtgcattt gttggcacia aacatcaggg 120  
cacaacaact acaacaactt gtgctagcaa accttgetgc ctactctcag caacagcagt 180  
ttcttccatt caaccaactg gctgcattga actctgetgc ttatttgcaa caacaactac 240  
cattcagcca gctagctgct gcctacccc agcaattact tccattcaac caactggcag 300  
cattgaactc tgctgcttat ttacaacaac agcagctacc accattcagc cagctagctg 360  
atgtgagccc tgctgccttc ttgacacagc aacagttggt gtcgttctac tcgcacgctg 420  
cgctaacgc 430

<210> 9889  
<211> 173  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G1

<400> 9889

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aaaaaaaaac aaaaataaac atacatacaa aactaaaaaa taaaatataa aatcccccta 120  
cttcaaatta ctccaccctt ttttaccacc ctttcaattt taaaaccctt ctt 173

<210> 9890  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G2

<400> 9890

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agattagcga tggcaagggtg gcgccggcg gcgctgctgg tagtggtctt ggcggcggtt 240

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cacgagttcg tgccctatga gggcgacacc gtgtccggga acttcgtcgt cgtcgaccac 360

gacatcttct ggagctccga ccaccagga atcgacctca cggtaacgtc accaggtggc 420

aacactgtgt acacattga 439

<210> 9891

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G3

<400> 9891

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gaagtacaac atgaattcaa gggctgggag aggcctttacc cttgaagatt tgaaagcttt 120

gtgtattcca aaaaggcttg gtccaaccat tgacattact gtggaataac tgctcatgaa 180

caaataccta gaggagcttc acgccaatgt ccagaggctt aagacatatc tagccaagct 240

ggttatattg ccaaggcgtg ctcataaggc ctaggctgct gactctactc tggaggagct 300

taacaatgct acgcagtatc agggtgacta catgccaaatt actttcgtg agaagcgcta 360

tgtcaaggtc gtgaacgtca cagatgaaat 390

<210> 9892

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G4

<400> 9892

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gtctccactc ccccttcac agatccgttc ctccagctag ggtagcggtt cctctgcagc 120  
gatggcgatc aagcggacta aggcggagaa gaagatcgcg tacgacaaga agctgtgcag 180  
cctgctcgat gagtacacca aggtgctcat cgccctggcc gacaacgtcg gttccaagca 240  
gctccaggac atccgccggg gcctcagggg cgactcgggtg gtgctcatgg ggaagaacac 300  
gctcatcagg cgttgcatca aggtgtacgc cgagaagacc ggtaaccaca cctttgacct 360  
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<210> 9893  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-037-Q1-K1-G6

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gggtacttat ttcttgctga acgccgagaa ctaccattgg caatggacgt cgttttcttc 180  
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aaagatgtca ggcttcttcc agacaagttt ctatttcggc tacacgctga tgttctgcct 300  
tggcctaggg atactttgtg gagctattgg ctatctaggg tcaacccttt ttgtaaggag 360  
aatctacagg aatatcaaat gtgattaaat ccctgctgct taagctagca acaganaaat 420  
catatgtatt gtcagga 437

<210> 9894  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G7

<400> 9894

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cacaacaact acaacaactt gtgctagcaa acctgctgc ctactctcag caacagcagt 180



ttcttccatt caaccaactg gctgcattga actctgctgc ttatttgcaa catcaactac 240  
cattcatcca gctatctgct gactaccctc agcaattact ttcattcaac caactggcag 300  
tattgaactc tgctgcttat ttacaacaac agcatctacc accattcagt cagctagctg 360  
atgtgagccc tgctgacttc ttgacacagc aacagtgggt gtcaatctac tcgcacgctg 420  
atcctaacgc tggc 434

<210> 9895  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F3

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cttgaagggtg ccattttcaa ccggagaacg ttcccagtgg ttgcgcacgc atgagtcgct 180  
gcattgcata tcgatgctgg gctgcacat gtctgacata acgtcagggg ccaccttta 240  
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gcaaaagacg acgacaggct ttcacaaaga agttttttt ccgtcataca tgtaggtct 360  
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<210> 9896  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cattacgtac aagcatatta aggacagatt ccgtgaccgg ctattgcttg aaggtaattt 180

ccaatgccaa ctttgggaaa gaagagccat aagtttcacg atgctgatga agatgtagca 240  
 cggtacagaa gattgnngcc agaatgcgcc cttcaagtat ctgtgcagac cgaaatcggc 300  
 gtcaaacagc ttaaggaaa agtgcatgag ctgctgacct ctcagatggc tcggatccaa 360  
 tctagcaagg cggagcatga aacacatgaa gtagcgacta gtgttggtta ctgaagtttg 420  
 acaataataa ggattcgc 437

<210> 9897  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E11

<400> 9897

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 ttcccgccat ttggtcccaa aggggctcct aaaaccccca gtgaactaaa ggatgcctca 240  
 tccttgtgac ggcttaaaaa ccccgctcgt ctacgtgctt tgcagcttt acctttcaaa 300  
 gactaccgtg tctgctggtc tctttcagat tcaaaatttt ctgaaacagc tatgtttata 360  
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<210> 9898  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E12

<400> 9898

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 aactcatat tgatgtcaga tgcagatcc atcagctagc attcagtcct catacagact 180  
 ccaaagggat tatggatctg acagaattcc tgtcacccaa acatgtaatt ctcgttcatt 240  
 gtgaaaagcc tcagatggct tttcttaagg agaggatcga atctgaattg gggatgcctt 300

gctactaccc agggaataat gaatccgtct ccattccgac aaccacagaac cttaaaatga 360  
 gtgctacaga aaggttcatt acaagctgtg ctgtggagca aggtaaacgt agcctgcaca 420  
 agcggaac 428

<210> 9899  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-E4  
 <400> 9899

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 ctgcctctgg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
 ctcgagtcca agatcatgct ggatcgggag acgcagaggt cccgcggctt cggcttcgtc 240  
 accttctcca cggacgacgc gatgcggaac gctctcgagg gcatgaacgg caaggagctg 300  
 gacggacagc acatcacgcg taacgaggcc cagt 334

<210> 9900  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-E5  
 <400> 9900

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 gccggtccac ctgcgcgcgc cgggtccacct gccaccgccg gtccatgtgc cgccgccggt 240  
 tcctctgccg ccgccaccat gccactaccc tactcaaccg ccccggcctc agcctcatcc 300  
 ccagccacac ccatgcccggt gccaacagcc gcatccaagc ccgtgccagc tgcagggaac 360  
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 cagcccgacg gcgacgcctt 440

<210> 9901  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E6

<400> 9901

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acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttccatt 180
caaccaacta gctgcattga actctgcttc ttatttgcaa caacaacaac taccattcag 240
ccagctacct gctgcctacc cccagcaatt tcttccattc aaccaactgg cagcattgaa 300
ctctcctgct tatttacagc agcaacaact actaccattc agccagctag ctggtgtgag 360
ccctgctacc ttcttgatac aaccacagtt gttgccgttc taccagcacg ctg'gcgctaa 420
cgctggcacc ctettacaac tg 442
  
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<210> 9902  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E8

<400> 9902

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ccatccgcta ccccgacccg ctcatcaagg ccaacgacac catcaagatc gatctggaga 180
ccaacaagat catggacttc atcaagtttg acgtcggcaa cgtggtcatt gtgaccggcg 240
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ataccatcca cgtcgaggac tccatggggc accagttcgc caccgcgatg ggcaacgtgt 360
tcaccatcgg caagggcaac aagccgtggg tgagcctgcc caagggcaag ggtatcaagc 420
tcagcatcat cgaggagc 438
  
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<210> 9903

<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E9

<400> 9903

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gtctgtgagc attaacgagt tactgaaacc tgctgaagga taaagggtact acggcgagac 180  
gtggtcgagg aaggcgccgt gatgatcgcg gtgatttttag aggcgtatac tagaggggga 240  
tacagtcatg gtccatctgc tgctgctcca tccattgaag atcaagctca gtttccaagc 300  
cttgatggcg aagtgaacgt gcgcccagct gctgatgtca ccgagcgttg agttgtctgc 360  
tgctgtcata tttaaattga tgccgacgtt aaatatctgt gccacatgtt aaacggaaca 420  
gataatgatg 430

<210> 9904  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F1

<400> 9904

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caatatgtaa tgcttgtggt gctgcacgga tcatgaatgc tacactggtg ctgccagaat 180  
tagacacaaa ttcattctgg catgatgaaa gtggccttctg aggtatttat gatgttcccc 240  
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caaatggaaa gaccaagaag ctcaaaggcc agcagcttcg gccaccaaga gatgcaccgg 360  
tatcttggtg tgcaactgat gctttggaga cgatgaagaa gtatggagct atatatttaa 420  
gtccattttc acaccgtttg gc 442

<210> 9905  
<211> 426  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F11

<400> 9905

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tggttggtgt atctgcagcc tgcgtatta agaagagctg tttatgtttg gccacaaatg 180  
ctgtctccgt agatcaatgg gcatttcagt tcaagctttg gtcgaccata aaagatgaga 240  
acattagtcg ttttacatct gataacaagg agaagtttac agggatggct ggtgtggttg 300  
ttactacata taacatgggt gcattcgggt gtaaaaggct tgaagattcg gagaagatca 360  
ttgaagaaat ccgaaacaga gagtggggct tgcttctaata ggatgaggct catgttgctc 420  
ctgcac 426

<210> 9906

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F12

<400> 9906

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ggtgctggca agtccttgggt tgggtgatct gcacctctgtc gtattaataa gagctgttta 180  
tgtttgcca caaatgctgt cttcgtagat caatgggcat ttcagttcaa gctttgatcc 240  
accataaaat atgacaacat tattcgtttt acatctgata acaagcagaa atttacatgc 300  
atctctgata tatttattac tacatataac atgggtgcat tctgtgttaa aaggctctaa 360  
tattca 366

<210> 9907

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D8

<400> 9907

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ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcttac cccaacaat 180  
ttcttccatt caaccaactg gcatcattga actctctctg ttatttacag cagcaacaac 240  
tactaccatt cagccagcta gctggtgtga gccctgctgc cttcttgaca caacaacagt 300  
tattgccgtt ctacctgcac gctgcgccta acgctggcac cctcttataa ctgcaacaat 360  
tgctgccatt caaccaactt gctatgacaa acccagcagc gttctacaa caaccatc 419

<210> 9908

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-C3

<400> 9908

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ccacaatgct cacaacaatt cctctctccg gtgacagccg cgagatttga ataccaact 180  
atacaatcct acaggctaca agaggccatc gcagcaagca tcttacggtc gttagcattg 240  
actgtccaac aaccatatgc cctattgcaa caaccatcct tagtgaatct atatctcaa 300  
agaatcgtag cacaacaact acaacaacaa ttgcttccaa caatcaatca agtagttgca 360  
gcgaaccttg atgcttacct ncagcaacaa caatttcttc cattcaatca actagctggg 420  
gtgaacctg ctgcttactt gc 442

<210> 9909

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C4

<400> 9909

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acctttccag cccttcaatg ttctataatt agcctggatg caatggacat cagtggacag 120  
gagcacctag atgtgaaaca tgatgtattc aagcagcgaa ttgatgccca tggcaatgtt 180  
attgcgacta ggcaagatgt agttggtggg atgaagatgg aggcacctct acaacatcat 240  
ggtggaaggc ttgaacacaa tgaaacctat tgtggctctt gttatggtgc acaagaatct 300  
gatgatcaat gttgtaacac atgtgaagat gttcgtgaag cctacaggaa aaaaggggtg 360  
ggtgtatcga atccagattt gcttgaccag tgcaaaaggg agggctttct tcaaagtata 420  
aaggacgaa 429

<210> 9910  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 9910

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atgcagcacc agaatatgtc atgactggtc atctgacatc aaagagtgat gtctacagct 120  
tcgggggtggt gcttcttgag atgatgtcag ggcgcaggtc gatggacaag aaccgcccga 180  
acgggggagca caacctgggtg gaatgggcgc gccccctcct aggcgagagg cagcggttct 240  
acaagctaata cgaccctcgc ctggaggggca acttctcggt gaagggcgcg cagaaggcgg 300  
cgcagctagc gcgcgtgtgc ctgagccggg accccaaggc gcggcccctg atgagccagg 360  
tggtggaggt cctgaagccg ctgcagaacc tcaaggacat ggcgagcgcc tntactttct 420  
tccagacgat gcaggccgag cgg 443

<210> 9911  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-C7  
<400> 9911

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 gagtcttgga gactacaggg acaagatccc ggcagagggt gcatctgaga tcgaggcagc 240  
 catcgctgac ctccgccagg agatggcctc ggatgacatt gagaagatca aggccaagct 300  
 tgaggctgcc aacaaggctg tctcgaagat tggacagcac atgtctggtg gtggctctgg 360  
 cggctcgcag tcaggatctg gacctcaggg tggcggcgac caggcgccgg aggagagta 420  
 tgaggagggtt aagaagtg 438

<210> 9912

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C8

<400> 9912

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 cactcccaaa tactccaagg cacgttatga agagattgtg aaggaagtct catcctacct 180  
 caagaaagtt ggggtacaacc ctgataagat tgcctttggt cccatttctg gttttgaggg 240  
 tgacaacatg attgagaggt ccaccaacct tgactggtac aaaggcccaa ccctgcttga 300  
 ggctcttgac cagatcaccc agcccaagag gccttcagac aagcccctgc gtctgcccct 360  
 ccaggatgtg tacaagattg gtggtattgg aactgtaccg gttggtcgtg tggagactgg 420  
 tgtcatcaag cctggtatg 439

<210> 9913

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C9

<400> 9913

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gccgctgaag gcgccaagg ccgacaagaa ggagtacgac gagacggatc ttgcataatct 180  
gcagaagaag aaagatgagg aaaaagcact gaaggagctt aaggccaagg cacagaaggg 240  
cgcgattggg ggctcgggtc tgaagaaaag tggaaagaaa tgagactggg caccctcttc 300  
caatacctag aggatgataa ggcagctgtc tatctgtgtt gcgcttcact aagtgtgatt 360  
gtaacagtgg tacctcttgt gttctgtgtt ccgcgatgtt gcagttgggt gcttgatcga 420  
aagatgtttc 430

<210> 9914

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D1

<400> 9914

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gctcacatgc tctataact acccttacta ccccgtaact ctcaccaaca ttgtattcgg 180  
tatgtgaaaa ccacttctt caacactata cgatccaaca ggcaatatgc actggcatca 240  
tacctttatc acccttacta cttcaacact catcacacct attacagcag ttacctttgc 300  
tgcatacatt tgcacaaaac atcactgcac aacatctaca acaactcgtg ctagcaaacc 360  
ttgctgtcta ctctcagcaa cagcaagttc ttccattcaa ccaactacct gcatagaact 420  
atgctgc 427

<210> 9915

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D12

<400> 9915

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catcctctcc cgtcaagaac catattgacc tgaacatcca acctgaacgg gacgatgagc 180

agtcaccgaa atctggtgcg gctgggtttgt tgagccgaga caatgcaact tagagagtgg 240  
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 ttccgaatgt ctataccctt gtttttttta agatagatgt ggcgtgagggc gtgggggtctt 360  
 gtagtgtagc tgttaccttc ccataccata gagccgggtt cctttttacc tgagactcca 420  
 gtggt 425

<210> 9916  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D2

<400> 9916

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 ccaaggaata acaacagcta tgacaaatgt cgtcgaagat ttgacctggg ggatgcagac 180  
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 gattgctgtc gaaaagggag atttgggtatt tgtgttcaac ttccactgca acaacagcta 360  
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<210> 9917  
 <211> 259  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D5

<400> 9917

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 atatttccaa accattacca caaacccata ctaaccatca ttaacaacac atacaacctg 180  
 aacattaaca atactactaa caatattact caccttctct catcaatacc aataacaaac 240

caaacaaaaa attctatca

259

<210> 9918

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D6

<400> 9918

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atcgtgatgc tctcctagct atattctgcc agcacctgta cctggacatc atgattacca 180

atgtgggaca taccgtacaa ctagcttctt aactgccgat agttcatgac cagacgtact 240

tgaagcattg cgactcacca cccgagtgcg tagcctaaga gaacatactg accatagctg 300

gcggacattc tcgcgtactg ctcgttccac ggatctgtgc atcctcatgt 350

<210> 9919

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 9919

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ggggtggggc atcccgcaca acccgctccc gagctgccgc tggtagctga ccagccggac 240

ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300

ggcggacatc ccggcgtact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360

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ggaggtgcag aggggattcg 440

<210> 9920

<211> 443

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-037-Q1-K1-C2  
  
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 ctcacaagct cctatagctt cctttcttcc cccatacctc tcaccagecg tgtcttcaat 180  
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 <213> Zea mays  
  
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 ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc ggcgaggtga cgtcgtcggc 180  
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 caagatcaac 430

<210> 9922  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B11

<400> 9922

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cctccggcct ctccaagacc aagacgcggg aggccgaccg ccgccgacgc cgccgcagca 180  
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ccagctccga cgccaaggag aacgccgatc ccaaccccga gccacagggt gaggtggaga 300  
tagagtacgt gccggagaag gccgagcttg acgacctct cctggatgat ttcaaggcca 360  
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<210> 9923

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B12

<400> 9923

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tcgccgtgtc tgcgccggtg tctgctcggc tcttctccgc ggatgcatcc ggtgaagccg 180  
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cctatggaag gttttacagt gtcattgggtg gaggcagtcg tcttgagaag aacatattga 300  
aaactgatat tatccatcac cttgacagat gtggattgtc attggatgat gtgaagattg 360  
aatacaacaa gggatatgct ccattggccg ctttgttgag gttttcttcg aaggcaatgt 420  
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<210> 9924

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B2

<400> 9924

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 ttgctgactt cgttcatgga cctgatggcc tcgggaacgt agatcttctt gatcccaacta 180  
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 tggtttt 427

<210> 9925  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-B4  
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 gcccccaagc caaagggtgt tgaggcacca gcagaagagg aagcaccaaa gccaaagcca 240  
 aagaatcttc ttgacttgct gccaccaagc aagatgggtcc ttgatgactg gaagaggcta 300  
 tactcaaaca caaagactaa cttccgggag gttgccatca aaagtttctg ggacatgtac 360  
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<210> 9926  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-B6  
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caaccattac tattttctgga ggcatactca ctggcctcag acgacattca cataactacaa 120  
 ttcatagtgc tcaggacctg cttgatcacg attgacgaat gagatatcga atgctgcata 180  
 tcgtacatta tttttgactg atgcatgtac tcataatgct acaacctttg attgtactgc 240  
 tgaacattct acagatagat cgcattgatac taacgctaac gctccttgte aattctttga 300  
 catgctatcc cgaggatctg ccagactcta tctatataga gatgccactg cattgcgaat 360  
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<210> 9927  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B7

<400> 9927

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 atggtcacgt ttctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag 180  
 atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg 240  
 atgatgggcg ccggcgggct gtacccttac ggggagtacc tgaggcagcc gcagtgcagc 300  
 ccgctggcgg cggcgccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg 360  
 ctccggcaac agtgctgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 420  
 cagctgcaga tgatgatgc 439

<210> 9928  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B8

<400> 9928

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 ggcctcctta tgctccttgg tctttctgca agtgctgcta ccgcgaccat tttcccgcaa 120



tgctcacaag ctccatatagc ttcccttctt cccccgtacc tctcaccagc ggcgtcttcg 180  
 gtatgtgaaa acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc 240  
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg 300  
 gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360  
 cttgctgcct actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420  
 tctgctgctt atttgcaaca ac 442

<210> 9929  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B9

<400> 9929

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 tctttgttgt tggccacctt tatctcgtga tgtttgtgtg catgtgaata ctctgaatgt 180  
 gcatttcgaa gtttgagaag ttacgacgcg ttaaaaaaaaa agcgtgcacc acagcccgtc 240  
 ccgagcgctg cagcacctca cggggatcaa gaagcactac tgccagaagc acagccagaa 300  
 gaagggtcaag tgctacaggt gcaacatgcg ctacgacggt tagtacgact tgaatgcgca 360  
 cgtcaagacc tgcagcgacc gcaagtatct 390

<210> 9930  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-037-Q1-K1-C1

<400> 9930

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 ggatgaactg gaagcggaac ttgaagaact ggaaggagca gagttggaat ctcagcttct 180

ggagcctgtt gcagctcttc ctgtgcatcc agtgcattgc ccaggcaaca agcaaccagc 240  
tcgccctgct ccacagaaag ctacagctga agatgatgag cttgctgcac tgcaagctga 300  
aatggcactg tgatcagggt tccactgaag aggtgaaatg tgtatatgaa ttgcgttatg 360  
ctgaaagctg agtcaggctt tattgtatct gccatgtgtg tataatcttg gtggatattt 420  
ggcaaccgtc aaccgaagca gc 442

<210> 9931  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C10

<400> 9931

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gcaaggactc ccggactttc actttcgaaa agggatgggc cttcccacgc cgagtttact 180  
tcaatggtga taattgtgtc atgccatctc ctgaaaatta tccatggctg ccgaatgcaa 240  
gccctctaac aaaaccattg gcactcccat tcttgggtatt ctgggttgcc ttggctgctc 300  
tgctggctta tgcatgatta gtgggatcaa gaggttttagc aagtttcaag ttgatgtcag 360  
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agatgaggcg 430

<210> 9932  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-C11

<400> 9932

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tgacctcgac gatgacatgg acgacctgga ctcagatacc gatcttgacc tggaaagcag 180  
tggggaaatc gtgtatgcta tttgacagca gcgaggcaat gcgtatcatc agtcgtgctc 240

agatcgtttg ttgcgccgca ggttaccgag ataattagag agacaggggg gaggtatctg 300  
ctggagatgc tgctcgtgtc tgatgccgtg atgccccct ttttttcac ctgttatgtt 360  
tggctgttgt ttggttgtgg tgcacctcca gtgttttaca acagtttggc ctttcggaat 420  
tggttgtgc 429

<210> 9933  
<211> 427  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-C12  
<400> 9933

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ctggccgcgt cgcacgtgag ccacgccgcg gggtcgagga tcgcggcgta cgccaggtcg 180  
gcgcccaggc ccacggcgtc catcgcgttc cggggcacgg tgatggggtc gtccccggcg 240  
ccgtccgtgg ctttcttctc gtcgcgcggg cccaacaggg cgagccccgg catcctgaag 300  
ccggacatca cggggcccg catgaacatc ctggcgcggt gggcgcccag cgagatgcac 360  
ccggagtctg cggacgacgt gagcctgccc ttcttcgtgg agtcggggac gtccatgtcg 420  
acgccgc 427

<210> 9934  
<211> 238  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-037-Q1-K1-B1  
<400> 9934

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gctcccgaga ggcgaccctc gccggagcca agggggcagc ggtggcgact atcgctccg 120  
cgatccccac cctggccagc gtgcggatgc tgccatgggc caaggccaac atcaacccca 180  
ccggccaggc gtcacgtgc tccacggtgg ctgggatggc ctacttcac gncgcga 238

<210> 9935  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H7

<400> 9935

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gccacctcca cgcatacaag cggcagctgc ggctgccagc caccgccgcc gggtcatcta 120
ccgccgccgg tgcattctgc acctccggtt cacttgccac ctctgtgca tctcccaccg 180
ccggtccacc tgccgccgcc ggteccactg ccaccgccgg tccatgtgcc gccgccggtt 240
catctgcgcg cgccaccatg ccactaccct actcaaccgc cccggcctca gcctcatccc 300
cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcagggaacc 360
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agcccgaagg cgacgcctta ctg 443
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<210> 9936  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H8

<400> 9936

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gcctatggta agcctgggct tgcagcacca atgcctgtgc acatggaatc gaggccggtt 180
gctggtgaaa ggagatgact tgtcatcggc atcatgccat gccatttcag gtttataatc 240
ttgtggtttg tcatcttgct gctacatttc cactgatgtt tcatgatgga agtttttttc 300
ccctcaaatt gtagaagatg tacaactgtg gactctagaa ctagggcagt tgtatattca 360
gacgacctct cgggtaattg cactttgttg cagaattgta ctactggact agtaccatct 420
tttaaaactg ag 432
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<210> 9937  
 <211> 426

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H9

<400> 9937

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 aggggatgcg cctggctgcc accgaagccg ctgggagcgg gccagccgta ccggagcagg 180  
 ggggccgccc ccgtgtgtca ctacgtagcg cacctcagcg cgcgcaccat acaggggatc 240  
 tacgccggag ccagcgcagt gctattagtt gctaaaggca ctgccataca caaatctttc 300  
 cttgtgccat tacttgctct tcaggcacat tgcagcataa tctcatggat caagggtgac 360  
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 gaactg 426

<210> 9938  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-037-Q1-K1-A1

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 gcctctcgtc ggcctttccc aggtctgcgc gtggcgcggc gccgcagcaa agtccacgc 180  
 gtgctgtgcc gccacccgnc gtaccggccc ggcccgtcgt cagtgtttcg gtcggtgaac 240  
 gacgtctcgc ttgggtatca gcgcgttctt cgaagcgcac gaacgacaaa cgggagaagg 300  
 aagagaactc gtgggga 317

<210> 9939  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A11

<400> 9939

cccacgcgtc cgccccacgcg tccgcccacg cgtccgcccg cccccaattc caaatccgga 60  
gtgcccgcgg ccacagaccg acccccatca cacacgcgca tcgcgccacc ccatccgtca 120  
ccgtcgaccc gcgagcacc atggcgaagg gaggaggtgg aggccagcgc gagggtagcg 180  
ccctgaagag ggccggcgatc gtcgcagggg ggctcgcgct ggcttgggtc accgtggaga 240  
ccgctttcag gcccttaatg ggccgcctcc gcgctgccat ctgcagctcc accgagaccg 300  
cccgcgaccc cgaccaggag gagcctcccg cgcctgcctc tgcggcggag gcggagaagg 360  
cgtccgcacc agaggagcct gccgcggtgg atgagaaagt cgaggagaag gtggtcgagt 420  
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<210> 9940

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-037-Q1-K1-A12

<400> 9940

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tgcgcggggc tgcagggctt gtacggcgct ggccgcggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt accctacgc ggagtacctg aggcagccgc agtgcagccc gctggcggcg 240  
gcgccctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300  
tgctgccagc agcagatgag gatgatggac gtgcagtcgg tcgcgcagca gctgcagatg 360  
atgatgcagc ttgagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420  
c 421

<210> 9941

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A2

<400> 9941

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gctgctgect acccccagca atttcttcca ttcaaccaac tggcagcatt gaactctgct 180  
gcttatttac aacagcaaca actaccacca ttcagccagc tagctgatgt gagccctatt 240  
gccttcttga cacagcaaca gttgttgccg ttctacctgc acgctgcgcc taacgctggc 300  
accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac aaaccaaca 360  
gcgttctacc aacaacccat cattggtggt gccctctttt agattgctta tgagttatag 420  
ttcaataatg aagttttttg gatga 445

<210> 9942  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-A5  
<400> 9942

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tcaacttcac tcacctcatg cccacccgct acaccctcga cgtcgatttc aaggatgtcg 120  
ccaccggtgg gcccgcgcga ctctctaccc acgacaagaa ggtcgccgcc tgcaagacgg 180  
ccaaagcgcg ccttgaggag aggttcaaga ccggcaagaa caggtgggttc tttaccaagc 240  
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ggacacactc catctctgtt ttctgtattac catgaatatt tcgtgttttag tcctggggct 360  
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ggttaaaatt ttgttctgtt ta 442

<210> 9943  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-037-Q1-K1-A6  
<400> 9943

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tagccctcct tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc attattccac 120  
 agtgctcact tgctcctagt gccattattc cacagttgct cccaccagtt acttcaatgg 180  
 gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgcct 240  
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 ttgcaacgca acaacaacaa caacagttt 329

<210> 9944  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A7

<400> 9944

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 ggatctctga tttatcgga aggaatccga caaaggcccg gaggagcaaa ttggattggc 180  
 tcttaatatc gggccgggca ttgacggagc gtaaatttaa caaggaacg gagcggttta 240  
 aaacctccaa ccggctgagt gtgtcaacac accttggccc ttgtaacgtt acttactatt 300  
 agcgcgatgc tccaaccgg accctttgtt gcacctgtaa gcccctacc cgttgtttac 360  
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 attggataaa attaact 437

<210> 9945  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A8

<400> 9945

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 gcatttgga gagcatgtgt cgaatttgat gtcacaaac atagttcaga ccctaggaac 180  
 catgctcgac acggttgtct ttagtctac taatagtatt gttgtcccaa actgaaacat 240



agccacacta tcgaagcaca cgtgcgatga gcttgacgcc gggtagattt tggttctaag 300  
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 tgtcattgcc ctgggagaac t 441

<210> 9946  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-A9  
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 acgttcctgt tcctgcgccc cggccgcgcg gcgctggcgc agatcgcgcc gctcggcacc 360  
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 cagtacgacg tg 432

<210> 9947  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-H5  
 <400> 9947

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 ccccgagat cgagctcccc accctcgacg gcaagactca caagatgtac cgcggtggga 180  
 agatctgcct caccgtgcac ttcaagccgc tgtgggcca gaactgccc aggttcggcc 240  
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tcgactcggg catggtgaag cacaaggatg acgaggcggc tccggctgag gcattctgcct 360  
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 gatatcggaa atcaactc 438

<210> 9948  
 <211> 185  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G2

<400> 9948

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 tctacacctc cttcacactt ccacataacc ttccccatta acacatcttc tcttaacttc 180  
 ccaac 185

<210> 9949  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G3

<400> 9949

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 atccccctgc gtgagggcct tccccctatg gtctccgact tccgcaagcg catcttcggc 180  
 gaccaagacg ctactgccac caccggaaac cagcaagggtt aggatgaagg agcgcacatg 240  
 acatggaaat ttttggtggc cctgcttcta gctgcttggc tgctctctcc ttactgacaa 300  
 aagctatggg ccacgtagtt cgttggaat gtgttactgg aatacctcgg ctgatgctgt 360  
 aatgccattc tttttttccc ctgtattttt tctttctcag ttctctcagt ccttagctat 420  
 acaaaaaaaaa agttcagttg aacag 445

<210> 9950  
 <211> 444

<212> DNA  
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 <223> Clone ID: LIB3059-036-Q1-K1-G4  
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 cagctggctg cttggggcaaa ggagcttcga gggatggaga gttactgcat caaggagttt 180  
 gctgagggcg ttgaggtcat cccttacaca ttggctgaga atgctgggct caaccaatc 240  
 tccattgtca ccgaactcag gaatcgccat gccagagggtg agaagaacac tggcatcaat 300  
 gtgaggaaag ggcagatcac aaacatcctg gaggagaatg tcgtgcagcc gttgctggtg 360  
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 attgtcactg ttaggtaaga gcgt 444

<210> 9951  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G5  
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 ccaaggatga cttggctgtc tacacttcgt tttcgtctgc tccctcgtcc aagtatatca 180  
 acgtagcaag gtggtttaat cacattgatg cgctcgtgag gctgagcgga attactgcag 240  
 agggccaagg tgtgaagggt gaatcgtcag cagttccttc agccccaact ccagatgttg 300  
 ctgaagcaca ggccccagtt gctgaggagg acgacgacga tgatgttgac ctttttggtg 360  
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<210> 9952  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G6

<400> 9952

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agattcaaaa tctcgatcac ttccatccaa ctogctactt cttcaatggc taccactctt 120  
tcaaataataa tttccctgtc tacacaacgt cttcacttgc aaactcctgc aattacctaa 180  
cttaatcacc ttgcatcaaa tacatctttg cgctcctgac gctttaccta ataactccat 240  
acctacaaac cttccaaaca gattcgcaag ctgaatctta aatgaaaact gcccttaatg 300  
ctaacataca gcccatcaca tataatgatt acgaccacga tg 342

<210> 9953

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G7

<400> 9953

aagaaagaat ctgggaagtc atcagtttta cttgatgtga agccatggga cgatgagagt 60  
gacatggcca agctcgagga agctgttagg agtgtccaga tggaagggtt gctctggggc 120  
gcatccaagc ttgtcccagt tggatatggt atcaagaagc tgcaaatcat gatgaccatc 180  
gtcgacgacc ttgtctctgt cgacactctc attgaggact atctgtgcgc tgagccagtt 240  
aacgagtacg tacagagttg cgacatagtt gccttcaaca agatctaggc gtgactttcg 300  
atcagtcctt cccctggggg gctggcgatg gtgggtggctg ggcaatgcac cagcctaatt 360  
tatccatagc tatatgtctg ctttgtgtgg ccagtgatat tgccgtgagt atttttggat 420  
cctattcgag tcgaatgtac ca 442

<210> 9954

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G8

<400> 9954

gttaagtatg ttatcagcta tcttttcttg gacactgtac aatacttgga tccggtggga 60

aaagtttgta cctcttatag gtttctatth agtttttttc tgccaatctc ttcaagctaa 120  
 ctcatgtacg tgtatgaatc acattgttat agtagctaac aatgtcagta gtgtaccaat 180  
 caataactgt attgcagtca agaaaatagt aatttccttg actgattttg acatccccat 240  
 ggctttaaca gtttaaaaac tgaaaattga ttctactata tttgtgtttt aaggccttag 300  
 tgtaggcgta caatctacgt cgacgccaaa attaaatcac ctctctacat ccatagttga 360  
 tatgaactgg tgagattctt actgatgcac taaatttcaa tcttaggata ctctttaatt 420  
 gatgtatgct ttgcttc 437

<210> 9955  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G9

<400> 9955

cccacgcgtt cgattcttca acccttcctg atccaaccgg gcattcggaa caaggccttc 60  
 tgccctttat cacccttggt cctgcaacaa ccgtcagccc tattacagca gttacctttg 120  
 gtgcatttgt tggcacaaaa catcaaggca caacaactac aacaacttgt gctaggaaac 180  
 cttgctgcct actctcagca acagcagttt cttccattca accaactggc tgcattgaac 240  
 tctgctgctt atttgcaaca acaactacca ttcagtcagc tagctgctgc ctacccccag 300  
 caatttcttc cattcaacca actggcagca ttgaactctg ctgcttattt acaacagcaa 360  
 caactaccac cattcagcca gctagctgat gtgagcccta ttgccttctt gacacagcaa 420  
 cagtt 425

<210> 9956  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H1

<400> 9956

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat taaaaaaaaa aaaaaacaaa aaaaaaaaaa 60  
 cggaaactta aacaatatga tcccaactta caaacacata catccaactt caaccctctt 120

ctatacctaa acctaaatcc aatcaacttc cccactttta ccaacatcat aactcataaa 180  
accattacct ttctcaactt actacttcat tccacaacat ctccacttat ctccacctat 240  
attcaatact gacaaacacc ctcatcctt cacctttccc aac 283

<210> 9957  
<211> 428  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-036-Q1-K1-H10  
  
<400> 9957

gggtccaagt gaccaacaac agggtttcag ctttgggcaa aacacatcaa gttggtggaa 60  
ccagccactt ccccagggtg aacagtcacg agtggtcagg ccgcatgcaa cggttgctcc 120  
at ttgattta gagaagacta gagaaggcag tgggttcaaa atatttggtt tccaagttga 180  
tacaaccaat ccatcacctg tccaattgag ctctccattg tctgctatcc gagagcatgt 240  
ggtacaaact cgaccatcg caccagtga tgaattgcaa cctgtgcaaa ttgagtgttt 300  
gcctgaggtg tccgtaagca cagctggaac tgcagctgag aacattcagc aagtccagca 360  
aagttcgaaa gatattcaaa gcaagtccca gggcgcttca acaaggagct gtacaaaggt 420  
tcataagc 428

<210> 9958  
<211> 426  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-036-Q1-K1-H11  
  
<400> 9958

agcgtggatt ccaacccgag gtgccgtgtc tcccaggctc gtggcgaatg ccgttggtga 60  
ccgataccat gtgctcgtcg ggacaggctc cactcagctc ttccaggccg tgctgtacgc 120  
gctctcacct gcaagtgacg gcacacccat gaacgtcgtc tcaccggcac cgtactactc 180  
gtcttaccba tctgtgacca actatctaaa ctctgcgtc taccgttggg ctggtgatgc 240  
caatacattt gatggcgaca catgtattga gctcgtctgc tccccaaaca accctgatgg 300  
tggcctccgg aagcctgtca tcaaatacaa gtctagcaag cctgtttatg acttcgcta 360

ctactggccg cagtacacac ccataccgga ggcagctgcc catgacatca tgctgttcac 420  
cgtctc 426

<210> 9959  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-036-Q1-K1-H12  
  
<400> 9959

ccctggcttc caacgccgag gtgccggttt ctccacaggc tcgtggggaa tgccgttggg 60  
gacgggtacc atgtgctcgt cgggacaggc tccactcagc tctttcaggc cgtgctgtac 120  
gcgctctcac ctgcaagtga cggcacaccc atgaacgtcg tctaccggc accgtactac 180  
tcgtcttacc catctgtgac caactatcta aactctgcgc tctaccgttg ggctggtgat 240  
gccaatacat ttgatggcga cacatgtatt gagctcgtct gctccccaaa caaccctgat 300  
ggcggcctcc ggaagcctgt catcaaatcc aagtctagca agcctgttta tgacttcgcc 360  
tactactggc cgcagtacac accatcacc gaggcagctg cccatgacat catgct 416

<210> 9960  
<211> 433  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-036-Q1-K1-H2  
  
<400> 9960

atgttatcag ctatcttttt ttggacactg tacaatactt ggatccgga aaaaaatttt 60  
atacctgtta tacgtttcta tttagttttt ttctgccaat ctcttcaagc taactcatgt 120  
acgtgtatga atcacattgt tatagtagct aacaatgtca gtagtgtacc aatcaataac 180  
tgtattgcag tcaagaaaat agtaatttcc ttgactgatt ttgacatccc catggcttta 240  
acagtttaaa aactgaaaat tgattctact atatttgtgt ttttaaggcct tagtgtaggc 300  
gtacaatcta cgtcgacgcc aaaattaaat caccttcta catccatagt tgatattaac 360  
tggtgagatt cttactgatg cactaaattt caatcttagg atactctcta attgatgtat 420  
gcttttcttc aat 433

<210> 9961  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-H3

<400> 9961

gactgaatca cggatcattc ggattgcacg ggggtctggt cgtcctgtca gggatgtcgt 60  
 cgacatgctg gaagagtata agcggcttgc taaaatctgg ggcaagatga agggctctcaa 120  
 gatcccaaag aaaggggaga tgagtgcact gtcccgcaac atgaatgttc agcacatgag 180  
 caaggtcctt cctccgcaga tgcttaaaca gattgggtggc atgggcggtc tgcagtctct 240  
 gatgaaacag atgggatcga aggagatgag cggaatgttt ggaggcatgg gtggcgagcg 300  
 gtaattttac gtctgttttt tgggtgatcg tcgctgtgaa cttgtgatgc taaattgaga 360  
 gggtttagtg ctgtgggtctg atcatcgta gagactcaga ggtttccatg aagatcagcc 420  
 tgccaacagg cttactgtag ct 442

<210> 9962  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E7

<400> 9962

cccacgcgtc cgcccacgcg tccggaaaac ccaattcttc aaccctacag gatccaacgt 60  
 gcaattgcat caggcatctt acctttatca cccttggtcc tccaacaatc atcagcccta 120  
 ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca acaactcgtg 180  
 ctagcaaacc ttgctgccta ctctcagcaa caacagttac ctttggtgca tttgttgga 240  
 caaaacatca gggcacaaca actacaacaa ctctgtgctag caaaccttgc tgcctactct 300  
 cagcaacaac agtttctgcc attcaaccaa ctagctgcat tgaactctgc tgcttatttg 360  
 caacaacaac tagtactacc attcagccag ccagctgctg cctaccccca gcaatttctt 420  
 ccattcaacc aactagcagc attg 444



<210> 9963  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-E8  
  
 <400> 9963  
  
 cgtacgcttt ccacaacagc ctggggatga atagagccaa gacatggggg tactgaagag 60  
 agctgcatgc atcatgaacg cacaaccata tgaatctatt ctgagaccga tcctgtgtgc 120  
 acatggcatt gccttgcttg gctattgacc tggcccagta cggactagag ccaccagcat 180  
 cagggcggac gtaccctgat ataacatata tatctgtagt tgcgtatgct gctaccggcg 240  
 gagtccgatt ctgcgccata tgttgctcgc tatatattgg gttgtgcggg attttgtagc 300  
 actgtgggtc gagagatgct cattgggagc gatggacagc tctctgctcg tatttgtcat 360  
 catgatagta tctaacggcg ctgcccgaga ttatgaagca atgctctaac tgtctatgaa 420  
 cacgac 426

<210> 9964  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-F1  
  
 <400> 9964  
  
 caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgctg 60  
 ccttatgctc cttggtcttt ctgcaagtgt tgctaccgca accattttcc cacaatgctc 120  
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgggtg cttcaatgtg 180  
 tgaaaaccca attgttcaac cctacaggat ccaacaggca atcgcaacag gcattctacc 240  
 attatcacc ttgttccttc aacaaccgtc agccctatta cagcagttac cttttgggtcc 300  
 atttgggggc caaaaacca tcaagggacc aaccacctac cacaaccttg tgctagcaaa 360  
 ccttggtctgc atactctcag c 381

<210> 9965  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F11

<400> 9965

cccactcatt ccaaagaaaa taaaaaaatt aaaaaaaaaat ataataaaac caaaaaaaac 60  
cctaccactc aagagcatct caaactttct tacacgtcca tccaacgtca tatctctact 120  
atcatatcac ctaaatacaa ttcactcacc atcttttttac aacataccta cttaaaaaac 180  
ctcaacatta cccaacttaa tcactttcca acacattcca ttttctctaa ctaccttaat 240  
accaaaaata ccaccacca tccacctacc taacattttac ccacactaaa tacttaaa 298

<210> 9966

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-F12

<400> 9966

ggcagcgatg agtcgtcaga gacgagatat gatgacactg accataaggg ttcattctggg 60  
cccaagaaaa ggaaatctgg taacacgtcg gctgaagggtg aaccgtctca agctgctgtt 120  
gtgcgctatg ctacggttga gtcgccatat cccgcaaagg gaaggctctgc ctcaaagctt 180  
ccagtgtctg cacctggcag ggcagcgctt cctagtgcca ccccgaaatct gaacattggg 240  
atggacattt ggaatacttc tcctgccttg gctgttctctg cagtgcaggg ggaagcgaat 300  
cctgngttgg cgcttgccccg acgtgatagc gttactcaac tggatgaacg tgaattgaag 360  
agggagagggc ggaaacaatc taacaggggag tctgcaagga gatctagggtt acgcaagcag 420  
caagagtgt 429

<210> 9967

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F2

<400> 9967

cccacgcgtc cggccgtcgc cgccctacgg ctcagatctt cgtcgtcatc ttctccgggg 60

acgagcaccc aaagatgggtg gtccttcaac cagatcgggtt cctgagcgag ctgacgagca 120  
 tgtacgagcg gagcacggag aagggctccg tctgggtcac catgaagcga tcaactctca 180  
 agggcaagggc acagttgcgg aagatggaga ataaggggca ggaggtagag cacaggtgcc 240  
 tcgtccgcgc ctccaatggc aagaagaaca tctccacctc ggtttctcta aaggagtaca 300  
 caaagtttca agcttcatac gcaacagttc ttaaggccca tatgcatgct ctgaagaaaa 360  
 gggagaggaa agacaagaag aagactgcag atgctgagaa ggcaattgag accgcaccca 420  
 agaagcagaa gaaagcatct tca 443

<210> 9968

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F3

<400> 9968

cccacgcgtc cggctttgtc ttgggaggtg ccattgggct atctatgtca ttctgcacgt 60  
 gccgtatctt gacgatgccc catacattca tgagaaatta atcagggaag ttttatcaca 120  
 gtattgtgag tcatggagta gagatgatgc tcaaaggcaa tacattgtag aacttgggtat 180  
 accagaagaa tggatgcatg aagctctggc tctttatcac gaatactatg gagataaaca 240  
 ggggtgcactg gagaatttga ttcagtgtgg caactggaag aaagctcaca ctattttcgt 300  
 gacttctgtt gctcattcta tgtttctgtc atctaaccat caggaggtct ggaagatcac 360  
 aagtgccttg gagaaccaca agtatgaaat tgctgactgg gaccttgggtg ccggaatata 420  
 catagacttc tacgttctga aga 443

<210> 9969

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F4

<400> 9969

ggttggcttc tcctccccct ccggttcggg ttcgggttcg tgagggtctt ccgggttggg 60  
 gttcctgggt gaacggatcg aaatggcggc gtcggatgtt gagtaccgct gcttcgtcgg 120

cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180  
 ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg gcttcgggctt 240  
 cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga acggcaagga 300  
 gctggacggc cgcaacatca ccgtcaacga ggcccagtcc cgcggcggcc gtggaagcgg 360  
 cggcgggtggg tacggtggtg gccgtggaag cggcgggtac ggcggtggcg ggcgccgtga 420  
 tggcggcggc g 431

<210> 9970

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F5

<400> 9970

catgcatgct tcatcacatt gttgactgca taacgaaaca catcgctcgtc ggatcgggga 60  
 tgatgagttc cgtcgtcgtg gatgctgctg ctaccagcag cagcgagaag aagacgtcgt 120  
 ggccggagggt ggtgggcatg tccatcaagg aggcgacgga gactattctc aaggacatgc 180  
 ccaacgcgta catccagggt ctgcctgttg ggtcgcccggt gacgctggac cttcgccccg 240  
 accgcgtccg tatcttcggt gacaccgtcg ccatgactcc gacagttggg tgatacatac 300  
 caaatgcaat aaacaaaccc tactttttat tttatgtttc cagttaataa taaaccaggc 360  
 cttagcttct tggttgtcct tccttgggtg gtgttagctt ctaagctact agtacaccat 420  
 taaaaaaagg aggacctcat gt 442

<210> 9971

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F7

<400> 9971

gccatggaag aagggcacct agcgtggtgg tgcctttttt cctgtttgtg taatatgggt 60  
 gcagtttttt ttgtgggtga ttcgtgattt gttgtgttac ctatagtcga cgcaacagga 120  
 gctctggcat ttcgattcat tctgtctagt gaaaggacac tgccatcata tgccgataaa 180

aataacgctt cgtatcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagtaaa aaaga 285

<210> 9972  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F8

<400> 9972

caggcagtca aatgggagca atacatggca gaactcacca ccctggacca ttctcctgcc 60  
 atcctggtga ccagaagaac ccagccaag gtttccaagg gccgtttgat ggcagcaggc 120  
 ccatgtacac gacgaatcag gtcggatgc acgctccacc tctccacac ttccacggag 180  
 ccttccccag gaacgcatct cctcttgagt tcccagcggg gtccggggga gcctggccgt 240  
 ccgtgcaggc acctccgatg ccggcacctg cacatccatc gtctttcccg ccgtttcagt 300  
 tgagggccacc gccaccgtcg cagcaggata tgtctggcgc aggcggcacc aggtggcccg 360  
 gtggcaatca aatctacaac ccttttgac caacggctgc ggcgcggt cagagagcgg 420  
 aggtgaccc tgagtacg 438

<210> 9973  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G1

<400> 9973

tttcgcaaac ctcatctcct agtgggtggct taaaagctt gatgagtacc ttctcactcg 60  
 cagctacatc actggctacc aagcttccaa ggatgacttg gctgtctaca cttcattttc 120  
 atctgctccc tcgtccaagt atatcaacgt aacaagggtg tttaatcaca ttgatgcgct 180  
 cgtgaggctg atcggaatta ctgcataggg ccaagggtg aaggttgaat cgtcagcagt 240  
 tccttcagcc ccaactccat atgttgctga agcacatgcc cca 283

<210> 9974  
 <211> 425  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G11

<400> 9974

cactcgtaga gagaaggaaa aatatcccca aaccctagct cccgatctcg atggcgaaacg 60  
ctcgcgctctt cttcgacatg accgtcggcg gcgccccggc gggccggatc gtgatggagc 120  
tgtacgccaa cgaggtgccc aagaccgcgg agaacttccg cgcgctgtgc acgggcgaga 180  
agggcggtggg caagtccggg aagccgctcc actacaaggg ctccaccttc caccgcgtca 240  
tccccgagtt catgtgccag ggcggcgact tcaccgcgg caacggcacc ggcggcgagt 300  
ccatctacgg cgagaagttc cccgacgaga agttcgtgcg caagcacacc gcccccggtg 360  
tgctctccat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 420  
tcgcg 425

<210> 9975

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E6

<400> 9975

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caaaatattt tgcttcctta tgctccttgg tctttctgca agtgctgcta ccgcgaccat 120  
tttcccgcaa tgctcacaag ctccatagc ttcccttctt ccccatacc tctcatcagc 180  
gggtgtttca gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcgc 240  
agcaggcatc ttacctttat cacccttggt cctccaacaa ccgtcatccc tattacagca 300  
gttacctttg gtgcatttgt tggcacaaaa catcagggca caacaactac aacaacttgt 360  
gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactggc 420  
tgcattgaac tctgctgctt attt 444

<210> 9976

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D12

<400> 9976

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gctccttat gtccttgggt ctttctgcaa gtgctgctac cgcgaccatt ttcccgcaat 120  
gtcacaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180  
tatgtgaaaa cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct 240  
tacctttatc acccttgttc ctccaacaat catcagccct attacagcag ttacctttgg 300  
tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360  
ttgctgcta ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact 420  
ctgctgc 427

<210> 9977

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D2

<400> 9977

cccacgcgtc cgaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gccgcccttt ttaaagatcc caattttact 180  
tccccctcct tccaacttaa tacttttttt ttaggtcccc caaaattaat ttaattgccc 240  
cttttttaaa aacttcttaa ttgaaaaacc cttggctttc ccaaattaaa tccctttgca 300  
aaaaatccct ttttccaac ttggcttaat accaaaaagc cccgaacaaa tcccccttcc 360  
aaaaatttcc ccaccttaat tggcaattgg aacccccctt ttaccggcac ttaaaccctg 420  
gctgttttgg ggtttaccac a 441

<210> 9978

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D4

<400> 9978

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accaagatat tttccctcct tatgtccctt gctctttctg catgtgttgc taacgcgaca 120

atccccctc aatgctcaca agctccctata gcttcccttc tccccccata ccttccatca 180

atgatagctt cagtatgtga aaaccagct cttcaaccct atagggtcca acaagcaatc 240

gcagcaagca acataccttt atcacccttg tttcaacaat cgccagccct atctttggtg 300

cagtcatggg taaaacccat cagggcacag cagctgcagc aactcgtgct acctgtgac 360

aaccaagtag ctctggcaaa cctttctccc tactctcagc aacaacaatt tcttccattc 420

aaccaactgt ctacattg 438

<210> 9979

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D5

<400> 9979

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tccgcccacc tcaagcgtc cggcaagatg gagctccctg agtgggttga cattgtgaag 180

actgcgaggt tcaaggagct tcctccttat gatcctgact ggtactacat cagggctgca 240

tccattgcaa ggaagatcta cctaaggcaa ggcacgggtg tgggtggctt tcagaagatc 300

tacggtggcc gccagaggaa tggctccgc ccaccacact tctgcaagag cagtgggtgct 360

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ggtggacgcc tcacacc 438

<210> 9980

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D6

<400> 9980



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 taactgaaga gctaggaatg aaccttgaga atgttgagcc tcacatgctg ggttcatgca 180  
 aaaagggtgac tgtctctaag gatgacactg ttattcttga tggcgctgga gacaaaaagt 240  
 ctattgaaga gagggcagac cagattagat cagcagttga gaacagcact tcagattatg 300  
 acaaggaaaa gctccaggaa cggttgcaa agctctctgg aggtgttgct gttctgaaga 360  
 ttggaggagc cagcgaagca gaagttggtg agaagaagga tagagtgaca gatgcactga 420  
 atgctactaa agctgctggt gaag 444

<210> 9981  
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 <212> DNA  
 <213> Zea mays  
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 <400> 9981

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 cgcccgtgcc cgtcgacgcg tcgttcttgc cggccgcgcc ccacctccgc cctctcctcc 180  
 tccaggggga tcggatacgc cacaggctgc gcgatggtgc tgtgggtctt cggctacggc 240  
 tccctcatct ggaaccccg cttcgacttc gacgacaaaa tcctcggctt catcaagggc 300  
 tacaagcgca cttttaatct cgcttgcat gaccacagag gcacaccgga gcatccggcg 360  
 aggacctgca cgcttgaaac cgacgacgag gccatatgct ggggaattgc atattgtgtc 420  
 aagggtggt 429

<210> 9982  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-E1  
 <400> 9982

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gaggcgaagg cggcggcggg cccggagtct gtgctgcgga agcgcaagcg ggaggagcaa 120  
 tgggcagcgg acaagaagga gaaggcgctc gcgacagga agaaggcgct cgagagccgc 180  
 aagatcatct tcgcccgcgc caagcagtac gccgaggagt accacgcca ggagaaggag 240  
 cttgtgcagc tcaagcgtga ggcccggttg aagggtgggt tctatgtgag ccagaggcc 300  
 aagcttctgt ttgtggttcg catccgtggt atcaatgcca tgcaccccaa gaccgcaag 360  
 atcttgag 369

<210> 9983

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E11

<400> 9983

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 tgctcacaag ctctatagc ttctcttctt ccccatacc tctcaccagc gttgtcttca 180  
 gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac agcaggcatc 240  
 ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca attacctttg 300  
 gtgcatttat tggcacaaaa catcagggca caacaactac aacaactcgt gctagcaaac 360  
 cttgctgct acgctcagca acagcagtta cctttggtgc aattgttggc acataacatc 420  
 agggcac 427

<210> 9984

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E12

<400> 9984

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 gctcccacca ggattagaga aggtgatggc gaggagtgc agctgcctgg cgcgctggg 180

tgccggagtt gcgatcgggtg ggcggtcgg cggagccgtc ggtgcttgtt atggaacttt 240  
 tgaggcattc agatacaaga tccctggatt gctaaagatc agacatatcg ggcaaactac 300  
 tgttggcagc gctgcaattt ttgggctttt cttgggggct gggagcttga ttcactgcgg 360  
 aaaatcctac tagtttgttt ccttcctttt tctgaacacg actttgtcga tgtgcttcag 420

<210> 9985

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-E2

<400> 9985

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 cgcgacaaaa ttgatgagcc taattctaaa aggcaaagaa ctagtactg attggaatct 120  
 acttgtgagc tgagaatctt gccagttctt gatttaccac agcggatgat caaataagg 180  
 acttgagaca aatggtggca gtattgagac aaaaatggat tagctgtggg atatacttgg 240  
 cactgagggc actagacgag gcacctatgc cttttttttt tgagggggcg catcttataa 300  
 gctgttattt ttttagtgca acgagcatac atgctgctgg catccaatcc ccaatatgta 360  
 caagttttta ttcaggttgt gatcatttac gcaacgaatc aaagccttcg ctctgggtcat 420  
 tgccgtagca tacggaggac tg 442

<210> 9986

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-E3

<400> 9986

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 ttctctcccc cgctccagct tatggcggag gcggcgccag cagccggcgg cggcatcggg 180  
 gacatcctcg ccacgagcga tcgggacttc ctgctccgca actccggcga gcaggtgaag 240  
 atcagcagcg ttgaggcgag cctgtggcc atctacttct ccgcctcatg gtgcccgcga 300

tgcaggaggt tcacgcccac gcttattgaa gtatacgaaa aactggcctc acagggcaag 360  
agcttcgagg tcgtctntgc ttcggccgat cgcaatgagg aagctntcaa tgaatactnt 420  
gcaaagatgc catg 434

<210> 9987  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-E4  
<400> 9987

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cgctacaaag agtgccggtc acttttttat tcacaaatta atggtgtcat atttgtttat 120  
gacctctccc agaggaaaac aaagacaaat ttgaacaagt gggcagtgga ggtttctgaa 180  
tctgggacct tttcagctcc tcttgggtct ggtgggtccc gtggccttcc agttccttac 240  
ctagttattg ccaacaaagt ggatattgct ccaagagatg gtagaagagt gagcagtggg 300  
aatcttggtg atgttgctcg tcaatgggtt gaaaaacaag gtctgcttcc atccagtgaa 360  
gtgcttccac ttgcagataa ctttcctggc aattctgggt tgctcacggc tgccaaagag 420  
gcaagatatg ataaagaagc tct 443

<210> 9988  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-D11  
<400> 9988

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gccagtactg tactcctcct tttcatctta tacaacacca aaagaatgga tcgaaattcg 120  
taacacatga caacaggatg acaattacaa gtgattaaaa aaagcacaca tgtgaggggg 180  
gaaaaggaag gaaactccgg gaagaggcta cgccaatgat ggaaagatgc actaagctca 240  
ccggcgccgc ctggagacta caggggaact tgtaccagtc tgctgccttc taaaactagg 300  
cgaggacgtt tggacgggag catgctgtgc ttggtaagaa gaatgtgcgg caggctttgg 360

gcctgctggc gcagctgttg gttgaagggt cgactccatg aaacaggcta tgttcaatcg 420  
agtcctct 428

<210> 9989  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C1

<400> 9989

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tgcaaaccag caacaacaac aactgcaaca gttttctgcc gctgcttagtc aactagccat 180  
ggtgaaccct gccgcctacc tacaacagca acaactgctt tcattctagc cgctcgctgt 240  
ggccaatgca cctacatacc tgcaacaaga attggtgcaa cagattgtac cagctctaac 300  
tcagctagct gtggcaaacc ctgttgcta cttgcaacag ctgcttccat tcaaccaact 360  
aactatgtcg aactctgttg cgtacctaca acagcgacaa cagttactta atccattggc 420  
agtggctaac ccattggctg c 441

<210> 9990  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C11

<400> 9990

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cctgcgcggg gctgcaggc ttgtacggcg ctggcgccg cctgacgacg atgatggcg 180  
ccggcgggct gtaccctac gcggagtacc tgaggcagcc gcagtgcagc ccgctggcg 240  
cggcgccta ctacgcggg tgtgggcaga cgagcgccat gtaccagccg ctccggcaac 300  
agtgtgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgag cagctgcaga 360  
tgatgatgca gcttgagcgt gccgctgccg ccagcagcag cctgtacgag ccagctctga 420

tgcagcagca gc

432

<210> 9991  
<211> 408  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-C12  
  
<400> 9991

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atgcaaccct gatttacggc tgaagggaca taattctgaa ggatatggct tatcatggag 180  
tattttttaa gagggacatt tgtaagtgg gtctgacgat gctcaaattt gcttgtggga 240  
cattaaagca aatagtagaa acaaaagtct tgacgccttg cagattttta agcatcatga 300  
tgggtgctgt gaagatgttg cttggcactt gaggcattgag tacttatttg ggtcagttgg 360  
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<210> 9992  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-C2  
  
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gtcgacaggg gaattaatgg cgctcgctgc tagcagcagc caccgccgcc tcatcctcgc 120  
agccgcgcgc ctgctctccg tgctcgcggc tgccagcgcc agcgccggga cctcctgcgt 180  
gccgggggtg gccatccgc acaaccgcgt cccgagctgc cgctggtacg tgaccagccg 240  
gacctgcggc atcgggccgc gcctcccggt gccggagctg aagaggagat gctgccggga 300  
gctggcggac atcccgcgct actgccggtg cacggcgctg agcatcctca tggacggcgc 360  
gatcccgccg ggcccggacg cgcagctgga gggccgncta gaggacctgc cgggctgccc 420  
gcgggaggtg cagaggggat tcc 443

<210> 9993  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-036-Q1-K1-C3

<400> 9993

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 attccagggc acttgccacc agtcatgcc a ttgggtacca tgaacccatg catgcagtac 180  
 tgcgatgatgc aacaggggct tgccagcttg atggcggtgc cgtccctgat gctgcagcaa 240  
 ctgttggcct taccgcttca gacgatgcc a gtgatgatgc cacagatgat gacgcctaac 300  
 atgatgtcac cattgatgat gccgagcatg atgtcaccaa tggctcttgcc gagcatgatg 360  
 tcgcanatga tgatgccaca atgtcaactgc gacgccgtct cgcagattat gctgcaacag 420  
 cagttaccat tcaatgt 437

<210> 9994  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C4

<400> 9994

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 gaatgccgac agataaaagt ggttgatgct ccagtatctg gtgggtgtgcg atccggcggtt 240  
 catggacgga gcgaaacccg cggcagcatg ctgctccacc ctgctgtgcg aggaggcatg 300  
 cttgtgcgtg tacgccaaag accccaagtt tgcaaaatac atcaacaacc ccaacaccgc 360  
 caaaaccttt acctcgtgcg gcatagccat ccccaaatgc taagcaagcg ctctgcgtcg 420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C6  
  
 <400> 9995  
  
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 ggcggtgctg gctgccagcc accgcgcgcg gttcatctac cgccgccggt gcatctgcca 180  
 cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggccacct gccgccgcgcg 240  
 gtccacctgc caccgccggt ccatgtgccg ccgcgcgttc atctgccgcc gccaccatgc 300  
 cactacccta ctcaaccgcc ccggcctcag cctcatcccc agccacaccc atgcccgtgc 360  
 caacagccgc atccaagccc gtgccagctg cagggaacct gcggcggttg cagcaccgccg 420  
 atcctggggc agtgcgtcga gttt 444

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C8  
  
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 gttctctgaa ttgtacagca gtagttggct attttgattt aatgcctcac ttgttcttac 360  
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<210> 9997



<211> 430  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-C9  
  
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 ctcagggtct ggctcgctat gccatcatct gccaggagaa tggctctggtg ccaattgttg 360  
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 ccgtccttgc 430

<210> 9998  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-036-Q1-K1-D1  
  
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 acgctcgtga gctacataaa gatctgcac agagtcttct aggctagctc tcaccccgagg 300  
 tctcagttag agatcgaca attgggtctt agagccaaaa ctgggatatc tttttcgcgg 360  
 agccagaggg cctttgccac tgcgtgtcgg tgtttacgac ccagc 405

<210> 9999  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-D10

<400> 9999

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aggaggaggg cggcgagtggt ggaggagagg cgagttcagc tgtagcgttt cttttcttgc 180  
ccgtggcgggc tgcggtgcca cctcgaacgc tgctccctgt tctggggctt actgcggatc 240  
ctgatctgag catcattcag agaggaagaa atatgcttag gagaaagcat ggctctgatg 300  
tcaactcaga tgatgctgag caaagagaag cacagattag tgaacttaaa gctgctcttg 360  
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aagcccg 427

<210> 10000

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B9

<400> 10000

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ccttcgacga cgccaacatc gccgacatgt gccgcagggc gcaccgccgg gagtacacgg 180  
tcccgcggtg ggtgtcgcag ccggcgcgcc gcctcgtggc gcgcctgctg gaccgaacc 240  
cggcgacgcg cctcgccgtc gcggagctcg ccggccaccc ctggttcaag cgctcgctca 300  
gcgtggactc ccagctcggc ggctcctgg acggccaggc ggagcgcgag ctggcgttcc 360  
aggccccgcc ggcgctgaac gccttcgaca tcctctccat gtccccaggg ctggacctgt 420  
cgggcctg 428

<210> 10001

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A3

<400> 10001

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accgtacctt tcaccagcga tgtcttcagc ctgtgaaacc ccaattcttg agccctacag 180

gatccaacag gcggtcacat gccgcatctt acctgtatca ccctcgaacg tacaactgtc 240

atcaacccta ttacatcaac tacctatgat gcatttatag ctacatctca tcacgctaca 300

gcagctactg catctcgggc taccaaacct tgctgactac gctcaacatc agcagttacc 360

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<210> 10002

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-036-Q1-K1-A4

<400> 10002

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aanaaggaag gcccgaagtc cctgttcaag ggtgctggtg ctaacattct tcgtgccatt 120

gctggcgctg gtgtgctttc tggctacgac cagctccaga tctcttctt cggaaagaag 180

tacggctccg gcggtgctta aatggagaaa aatgatgacg aacaagagca gtctgctccc 240

ggtccagccc agtcaggatc tggtaagtt tttgcctttc atatcgaaga aattaataat 300

ttatgtagga gaatttttcc aacattcggt ttgggcggag acattgatct caaaacactc 360

gtaactgtcc tactaggtgg tggcatgggt ccccaaaaca tggcatagg gtgtgtctag 420

tctgcccttc gttgcagccg ggc 443

<210> 10003

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<212> DNA

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<223> Clone ID: LIB3059-036-Q1-K1-A5

<400> 10003

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tcaaggagcc agagagggac cgcaagaagg tcaagaacat caagcacagc ggcaacatca 180  
gcctcgacga cgtcatcgag atcgccagga ccatgaggca cagggtccatg gccaaaggaat 240  
tggccggcac cgtcaaggag atcctcggta cctgcgtcag cgtcgggtgc accgtcgacg 300  
gcaaggaccc caaggacctg cagcaggaga ttgacgacgg cgagggtggag atcccgtccg 360  
cttaagaagg attggtgtcc aggactgtgt tatctttgct gctgaagcca ttctctgcct 420  
agattttctc atattttattt 440

<210> 10004  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-A8  
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atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttegggtatg tgaaaaccca 120  
attcttcaac cctataggat ccaacaggca atcgagctg gcattctacc tttatcacc 180  
ttgttctcc aacaatcatc agccctatta cagcagttac ctttgggtgca tttattggca 240  
caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc tgcctactct 300  
cagcaacagc agttttctcc attcaaccaa ctagctgcat tgaactctgc tgcttatttg 360  
caacaacaac taccattcag ccagctagct gctgcctacc cccaacaatt tcttccattc 420  
aaccaactgg catcattgaa ctct 444

<210> 10005  
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<213> Zea mays  
<223> unsure at all n locations  
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<400> 10005

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 tatgcttgag aacttgacca gtccagctca taaggagcag cttgaggaga ggatggcccg 120  
 tatcaaggaa gatccatcct tgaagccaat tcttgatgaa atagagaatg ggggtccatc 180  
 tgcaatgggtg aagtattgga atgaccctga gggtcttcaa aagattggcc aggcaatggg 240  
 tgttaacctt cccggagatt ctagtgtgtc cactgtgtc tctggaccg aagagactga 300  
 ngaggaagga ggggatgacg atgagtccat tgttcatcac actgcaagtg ttggtgatga 360  
 agagggtttg aagaaagctt tagaagggtgg agcagacaag gatgaagaag atgccgaggg 420  
 aagacgggca ttac 434

<210> 10006  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-B1  
 <400> 10006

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 gctgccttgc tcctcttgtc aagggtcatca atgacaagtt cggatcgtt gagggctctga 120  
 tgaccactgt ccatgccatc actgctaccc agaagactgt tgatggggcc tcactaagg 180  
 actggagggg tggaagggt gctagtttca acatcattcc cagcagcact ggagctgcta 240  
 aggctgttgg caaagtgtt cctgtcctta acggaaagtt gactggaatg tctttccgtg 300  
 tcccaaccgt cgatgtttct gttgttgatt tgactgttag gcttgaaaag tcagcaacct 360  
 atgatgagat caaggctgcg gtc 383

<210> 10007  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-B11  
 <400> 10007

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 cgtcacgagc tcccgccgga agtgccgcaa ggcgcacttc acggccccgt cctccgtccg 120

ccgcgtgctc atgtccgcgg cgctatcgac ggagctccgc cacaagtaca atgtgcgttc 180  
catcccgate cgcaaggacg acgaggtgca ggtcgtgcgc ggcacctaca agggccgtga 240  
gggcaaagtg gtgcaggtgt accgccgtcg ctgggtcatc cacgttgagc ggatcacccg 300  
cgagaaggty aacggctcca ccgtgaacgt gggcatccac cttccaagg tcatggttac 360  
aaagctgaag cttgacaagg accgcaaggc gctcctcgac cgcaaggccc ggggccgcg 419

<210> 10008

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B12

<400> 10008

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gctgatacag atatatcagc tgttgatgcc tccacagttc aggacaaagg ggggccacca 180  
gcagagcaag aaacttctgg aattttacct gtgttacagc ctttgagtcg taaacggctt 240  
atcacatctt cacagacggt agacagtgcc tcgcaggggt aggctaata tgtcaatcct 300  
ccatctaaga agcccaagga ggaagaatct tcacaaggga ctagtgaact caaaagtgg 360  
caaccacctc ttggggatgt agcggcacag gtaaagtgtc ttccagccac tgatgacct 420  
gatggac 427

<210> 10009

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B4

<400> 10009

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accaagctca tacatctgaa ttgactagtc aaactcagtg atctctttgg ggactaatca 180  
aactcaagaa ctaagtttca tgtctgatct cgacgtccag ctccatctg cttttgatcc 240

gtttgcagag gcaaattgctg aggactccag tgctggtgct ggatcaaagg actatgtgca 300  
 cgtgcgtatt cagcagcgca acggaaggaa gagtctgaca actgttcagg gcttgaagaa 360  
 agagtacagc tacaacaaga tcctcaagga tctcaaaaaa gagttctgct gcaatggtac 420  
 tgtagtccag gatccagagc tagg 444

<210> 10010  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-B5  
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 acatctatag ctctctcaag acctgcccga gtctctcagtt agagcgcttc tttctgcaga 180  
 tcccaacaaa caccggtgat gcattcacgg ataacttctt gaaggtgcag gagtagcacc 240  
 cgccaaaagg tggattataa aaccttctat tagacaagct gacaaatttc aatgagcacc 300  
 ctaatgagat gcagctagta ccattgctgc taatacagtc tattagactg aagaaactat 360  
 ttctgattgc taccaaggag gatcaccctc aaggactgcg caaggttcat tcatatatgc 420  
 tgtctgattt tcataaaa 438

<210> 10011  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-036-Q1-K1-B7  
 <400> 10011

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 ctggggcgggt atacgcagga ccagctggag gtgggcgacg tcctggagca gcacggcctc 120  
 aagtccgtct tcgccttcga ccctgcgcgc cgcaaacgcg gcgtcgccat ccgcttcaac 180  
 cctcgcaacg gccgctccct cctcccctac gccctgggtt ccacgatctt cctagacggc 240  
 gagcccaagg attctttgct gaagcccatc acgaagatgg tgattgggggt cgccgctatg 300

actgtggtag ctgcagtcct attgaaggag gccaaagatgc ccgagtggct tcagtcaccc 360  
aagctgggag ccgtgagctt cccaccatgg gtgctggctt gcatggcatc cgtgttcacg 420  
aggctccgga agagaacccat ggat 444

<210> 10012  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-A2  
<400> 10012

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ccgacacgct cggcgactgc ccgttctcgc agagggtgct gtcacgctg gaggagaaga 120  
aggcccccta cgaggtgaag ctcgctgacc tcgacaacaa gcccgaaatgg tttctgaaga 180  
tcagcccaga gggtaagggtg cctgtgttca acgggtggta tggcaaatgc attgctgatt 240  
ctgatgtaat caccctaaacc attgaggaga agttcccaac tccatctctg gtcactcctg 300  
tagaatatgc atcagtggga tcaaagattt tcccagcctt catcacattc ttgaagagca 360  
aggatgctag tgatgggtcc gagaaggcgc ttctggatga gctgcaggca ctggatgagc 420  
atctcaaagc tcatggcccc tac 443

<210> 10013  
<211> 355  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ggctggccta cttcaacgac cccgccacca gcctcagggc gctggagagg gtgagcgacg 180  
ccgctgacag gaaggcgtgc ctggacgact gcgcctgcgc ggcggcgcag ttcgtctacg 240  
gcaccgacgc cggcgacggc ttctgctacc tgcagtcgga ggtgctgtcg ctggaaacgt 300  
cgcggccgga ggtggtgcac tacaactnca ccatgcatct caaggtgcgg gccac 355



<210> 10014  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-G9  
  
 <400> 10014  
  
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 aatgctgaag acgagaagaa agatgtccca agtgcaggga agactgagga agttgacgat 120  
 aagaaagatg ctgaaaatgt ggagatgaaa gatgctgcag agaagactga ggaagttgac 180  
 gataagaaag aggaagcccc tactgtagat gcagcagaga atactgtgga aggtgatgat 240  
 aagaaagagg agccccctgc agagaagact gatgagaaag aggaagcccc agctgtagat 300  
 gcagcagaga agaatgagga aggtgatgat aagaaagagg aggagccctc tgcagagaag 360  
 aagactgttg agaaagaggt ggtccctgct gtagatgcag cagagaatac tg 412

<210> 10015  
 <211> 112  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-035-Q1-K1-H1  
  
 <400> 10015  
  
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 aaataaaaag gaagaaacaa aataaaataa agaaaagaaa aataacaaat aa 112

<210> 10016  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-H10  
  
 <400> 10016  
  
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 aacgacgaga ctacttatcg ctagtctccc ataccattgg attacgggaa gatcatatga 120

aggcaattag aatggacgaa cagagcagca tatgtagccc atctacaatg caagaagact 180  
 ggaaacgctc cgatagtaac gggaactcat gtaccagatc attgtcctga tgcacatct 240  
 gtttgcctcc atcaatatgg agatgctgct cgattgctcc tcatggagtt gttttcctta 300  
 gaccatattg aaaatg 316

<210> 10017  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-H11  
 <400> 10017

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 acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt atttgcaaca 120  
 acaacaacta ccattcagcc agctacctgt tgcctacccc cagcaatttc ttccattcaa 180  
 ccaactggca gcattgaact ctctgctta ttacagcag caacaactac taccattcag 240  
 ccagctagct ggtgtgagcc ctgctacctt cttgacacaa ccacagttgt tgccgttcta 300  
 ccagcacgct ggcctaacg ctggcaccct cttacaactg caacaattgc tgccattcaa 360  
 ccaacttgct ttgacaaaacc tagcagtgtt ctaccaacaa cccatcattg gtgg 414

<210> 10018  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-H12  
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 gttcgcgatg gcatcttgga ggatgttgct taccagctg agattgtggg gaagcgtgtc 120  
 agataccgtc tggatgggtc caagattatc aagattttct tggacccaaa ggagaggaac 180  
 aacactgaat acaagctgga gacctgcact gcggtctacc gcaggctgtg tgggaaagat 240  
 gtgggtctttg agtaccctat gaccgaaaat gcataaatat gatgccctct ggatatctcc 300  
 actctatttc gttgattctg aatgttatgt tgggtctccc tatgtacttc aaaaaacata 360

gttttgatgc taaagttgcc taggaatttg gtacggtgaa gtggcagtgg acgtgaacaa 420  
tgттааg 427

<210> 10019  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-035-Q1-K1-H3

<400> 10019

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tggtgatgaa gagggtttga agaaagcttt agaagggtga gcagacaagg atgaagaaga 180  
tgccgagggga agacgggctt tacattttgc atgtggctat ggtgagttga agtgtgcaga 240  
aattctcctt gaggcggagg ccgcagttga tgccctagat aagaacaaga aactccgtt 300  
gcactatgct gctgggtatg gtcggaaagg aatgtgtgga tcttctgttg aagtatggtg 360  
ctgctgtcac gctccagaat ctggacggga aaaccncat cgaggttgcc aaactcaaca 420  
gtcaagatga ggttctcaag ttgc 444

<210> 10020  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-H4

<400> 10020

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cgctccgtcg acacgatctc cggctgctc aaggccggca tgtccgtcgc ccggttcgat 180  
ttctcgtggg gggacgccac gtaccaccag gagacgctgg agaacctcaa gctctccatc 240  
aagtccacca acaagctatg cgctgtaatg ctctacaccg tgggcccgga actgcaggtg 300  
gtgaacaaga gcgagacccc gatctccctc g 331

<210> 10021  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-H5  
  
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 tttaccgtag tgtacacaag ctattatagc atcagttcta tgcacgcgta catatgacca 180  
 ggcagcgctt gtgtatgatg gcacccatgt actactgcgt atgcgatcca acacgcaatg 240  
 gctactggac atataccgct atcagcttag gctctacgac aatcatggtg cttacgacag 300  
 agactacctt tgctgcattg attgactcca aatataccag gcacaacaac tacgacaaca 360  
 cgtgcgtagc acaccttgat gactactatc agcaacagat a 401

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 <211> 481  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 10022  
  
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 cgagcccttc cggcgtcttc ctgcgcggcg gcggttcttc cccgtcgcgc cccgcaccca 180  
 ctacctcttc cgcccgctcc tcgtcgggtc ctggaccga tcgggctccg ctctttcttc 240  
 gccgcgcgcg ccaccgcgtc gcaggcgccg cccatggggg ccacctgtt cggcgggctc 300  
 atggacaccc ggttcccga ggcgcggccg ggcttcgcca accgccgga gagggctagc 360  
 ttgcgcccc aaggtccgta ctactgggtg aagtgaagc ctgacgagcc cataccagtt 420  
 agtcagccga accaggggag cgtacgaggg aggaaggaga agaagcggat caagcagcgc 480  
 a 481

<210> 10023  
 <211> 439

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-H7  
  
 <400> 10023  
  
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 gtgatgtcgt ttcagcctca ccaaccaagg cctcagctgc tatcgttctc caggccgaga 180  
 aggacttgca gccttggatt gctagagacg acgaacaagg ccagaagatg tggagagtca 240  
 accaacgtat agtgaagctt atagcggagc tcatgaggaa ccatgacagc cctgaagcct 300  
 tggtgatact cgctagtgtc tctgaccttc tacttcgtgc tactgatgga atgcttgttg 360  
 acggtgaagc ttgtactttg ccacagcttg agcttctcga agtaaccgct cgagcagtcc 420  
 atcttattat tgaatgggg 439

<210> 10024  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-036-Q1-K1-A1  
  
 <400> 10024  
  
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 gaataaacgt aattggttag ctagaaggaa agcggagatg cttcagtttc caaaatttca 180  
 tgtgtcgaga acaaggctta tcatctacaa tttgcctaag actatgacca ttaatgacgt 240  
 aaagaagctt tgcagagaag cagtcatttc tctgtgtaca aaacaaaatc ctgtcatccg 300  
 gaaggtgaat atcctgaaga atgaaaagaa aggcatacag aagcattcac gcggtgtagc 360  
 ctttgttgat tttcaagaac atgaacacgc tcttgttgct ctaagggttc taaacaacaa 420  
 tcttgaaact ttt 433

<210> 10025  
 <211> 430  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A12

<400> 10025

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ttgggggctcg tctgatgcta ttgcaattgc taccacacct cttctgatg atctccgtta 120

tttgaaatca tcagccctgg atatttggtt acttggtat gaatttccag aaacaataat 180

tgttttcatg cacaagcaaa tacatgtttt aagcagtcag aagaaaggaa atcttattgg 240

gacctcaag aaggctgcaa acgaggtgtg tgggtgtgac attgtgttgc atgtgaaaac 300

caagaatagt gatggtgctg acttgatgga tgacatagt catgctgctc gtaatcaatc 360

aaaatcagat aagccagttg ttggacacat agccaaagag gcacctgagg gtaagcttct 420

tgaaacatgg 430

<210> 10026

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G5

<400> 10026

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aatcgagtca gatcctgtcc gaatccgagc taagggatgg caaccggtag tgaagcctcg 120

aaggcagctg aggctgtggt tgactggcat aaacacgaca gcaagaggat gctccatgcg 180

gtttaccgtg ttggggatct ggaccgcaca atcaagtact acacggaatg ctttgggatg 240

aaactgctga ggaaaaggga tgttcctgat gagaagtaca ccaatgcctt ccttggcttt 300

gggccagaga acaccaactt tgcagttgaa ttgacatata actatggcgt tgaccagtat 360

gacaattgga ccgggctttg ggcatttcgc aattgctaata gatgatgtgt acaagtttagc 420

tgagaatatc aaatccaagg gtggttaagat caccgcgcg 458

<210> 10027

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F12

<400> 10027

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gctgcacaac caactgcctt gtcctcttg ctaaggatcat caatgacaag ttcggtatcg 180  
ttgaggggtct gatgaccact gtccatgcca tcaactgctac ccagaagact gttgatgggc 240  
cctcatctaa ggactggagg ggtggaaggg ctgctagttt caacatcatt cccagcagca 300  
ctggagctgc taaggctgtt ggcaaagtgc ttcctgtcct taacggaaag ttgactggaa 360  
tgtctttccg tgtccaacc gtcgatgttt ctgttgatga tttgactgtt a 411

<210> 10028

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F2

<400> 10028

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tgtaccattg atggtttacc gttgcatttg gtagcggaca tatcatttga gtttctg 117

<210> 10029

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F3

<400> 10029

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agccctcagg ataaccgaaa tggccaggct gtataaagtg tgcacacctga cataactcgtg 180  
aatgtcagat ctaagatgta agatacgggtg atttaagacc gacgcattga cagtcgctta 240  
taacgtcacg ac 252

<210> 10030

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-F4  
 <400> 10030  
  
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 cagttttctgc cattcaacca actagctgca ttgaactctg ctgcttattt gcaacaacaa 180  
 caactactac cattcagcca gctagctgct gcctaccacc agcaattgct tccattcaac 240  
 caactggcag cattgaactc tcttgccttat gtacaacaac aactactacc attcagccag 300  
 ctagctgctg agagccctgc tgccttcttg acacagcaac agttgttgcc gttctacctg 360  
 cacgtgctgc ctaacgttgc accctcttac aactgca 397

<210> 10031  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-F5  
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 tgtaatcacc caaaccattg aggagaagtt cccaactcca tctctgggtca ctctgtaga 180  
 atatgcatca gtgggatcaa agattttccc agccttcac acattcttga agagcaagga 240  
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 caaagctcat ggcccctaca tcaacgggga gaacgtatca gcagctgac ttagcctggg 360  
 gccaaagctc ttgcacctgc aggtcgcaact ggagcatttc aaaggctgga agatcccaga 420  
 aaacct 426

<210> 10032  
 <211> 453  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-035-Q1-K1-F6

<400> 10032

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tgatggatac cagcctcact tgatagctcc agaacaagga tatagacgcc ttatagaatc 180  
ttgtcttatt agtatcagag gtcctgctga ggcggctgtt gacgcggtcc atgcaattct 240  
caaggacctt gtccgcaagg ctatcaatga aacacatgaa ctgaagcagt tccccacct 300  
tcgtgtggaa gtaggcaatg cagcttttga gtcattggat agaatgaggg atgaaagcaa 360  
gaaaaataca ttaaagctag ttgacatgga atgcagctac ttgacagtag atttcttcag 420  
gaagcttcct caggatgttg agaagggtgg aaa 453

<210> 10033

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F8

<400> 10033

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ggtggacgcc ggctcgaacc cgaactactt cgcggtgctc atcgagtacg agtccggggga 120  
cggcgagctg gagtccgtgg agctcatgca gcgcggcggc ggcggcgggg gggcgtgggc 180  
gccgatgcag cagtcgtggg gcgcgggtgtg gcggtacaac tccggcgaca ccctgcaggc 240  
gcccttctcc gtccgcctca cctccggctc cggcaggacg gtcgtcgcca gcaacgtcat 300  
ccccgcgggg tggacgcccg gcgccacgta ccgctcggtc gtcaacttcg acaactaacg 360  
aggacggacg gacggaccga aattaacgga cgcgc 395

<210> 10034

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-G1

<400> 10034

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gccgcggcaa ccctacagtc gaggtcgacg tgttttgctc agatggaacc ttgcaaggg 120  
cagctgttcc cagtggagca tcaactgggtg tatatgaagc tctggagttg agggatgggtg 180  
gctctgacta tttggggaag ggtgtctcca aggctgtgaa caatgtgaat tctgttattg 240  
gacctgctct gattggcaag gacctacag cacagactga gattgataac ttcattgggtc 300  
aacaacttga tgggacaaaa aatgagtggg gatgggtgaa gcaaaagctt ggtgctaattg 360  
cgattctggc tgtgtcatta gctgtttgca aagctggngc tagcatcaag aggattccct 420  
tataccagca cattgccaac ctagctggga acaag 455

<210> 10035  
<211> 409  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-G10  
<400> 10035

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gatttttcag cccttcaaac ttcattgaagt ttgagaagga tgattctggg aggattgcta 120  
tcctaccatt ttatctttat gtcattgcga cagtttctct tactcaagca agaattgata 180  
tgagtgagct tgatgaggat tctgatgggt tccttcagcc tcatgaaatg gaagcatata 240  
ttagaggact catccccaat ttggcgcaat tgcgcgatat gccactgca tttgttcaga 300  
tgtactgccg catagctgca cgcaagttct ttttcttctg tgatccacac agacggggga 360  
aagcatgcat aaagaaagtg ttgctgatca attgtcttca ggagctaatt 409

<210> 10036  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-G11  
<400> 10036

gcagagagct atgttttccc cattgtcgac ccacactatt gcatactgag cccaggggtc 60  
gccagcagc catggcgccc aaactctctg ctcccatcgt actccttggc gcagtgggag 120

aagctaccat gggcgccacc cgacctgcag cttcgcccttg ccgacgcca gaaattgcag 180  
catcagctcc taccctctct acatggccga cgctcatagc tccagcagac gctcctccat 240  
acttcccatg gcgtactgca tcagacgcct tgaagcaacc acgccatggc ttgcgactcg 300  
gagtcctacc tgcttgcatg ctgatgctca gtgcccattg tgcttgatag gtgctcgacg 360  
aaatgtgagg caaccacgtc ggcttcgtgc actgtcgact cgctgg 406

<210> 10037

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G12

<400> 10037

gcaacataga aagcacaata gtgtaccaac aatggtagcc aaaatatattt gcctccgtat 60  
gctccttggt ctttctgcaa gtgctgctac gacgaccatt ttcccgcaat gctcacaagc 120  
tcctatagct tctcttcttc ccccatacct ctcaccagcg ttgtcttcag tatgtgaaaa 180  
ccaattctt caacctaca ggatccaaca ggcaatcaca gcaggcatct tacctttatc 240  
acccttggtc ctccaacaat catcagccct attacatcaa ttacctttgg tgcatttatt 300  
ggcacaaaac atcagggcac aacaactaca acaactcgtg ctagcaaacc ttgctgccta 360  
cgctcagcaa cagcagttac ctttggtgca attgttggca caaacatc 409

<210> 10038

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G2

<400> 10038

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gacattatcc ctccttgccg ttcttgccct ttttgtgagt gcaacaaatg cgttcattat 120  
tccacaatgc tcaattgctc cgagtgccat tattccacag ttctccctc cagttacttc 180  
aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240  
cgtcttagaa caaccaattg cccaattaca acaacaatcc ttggcacatc taaccatata 300

aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360  
ctacttgcaa caacagctgc ttgcattcaa cccacttgct ttggcaaacg tagctgcatt 420  
accaacacaa cca 433

<210> 10039  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-G4  
<400> 10039

taccggttcg gactggctgg agccacgcgt ccgccatcag ggcacagcag ctgcagcaac 60  
tcgtgctacc tgtgatcaac caagtagctc gtggcggaacc tttctcccta ctctcagcaa 120  
caacaatttc ttccattcaa ccaactgtct acactgaacc ctgctgctta tttgcagcaa 180  
caactattac cattcagcca gctagctact gcctactctc agcaacaaca acttcttcca 240  
tttaaccaat tggccgcact gaaccccgtc gcttatttgc agcagcaaat actactacca 300  
tttagccagc tagctgcagc aaaccgtgct tccttcttga cacagcaaca gttgctgcct 360  
ttctaccagc agtttgcggc taaccccgea accctcttac aactacaaca attggttggcc 420  
tttgtccaac ttgctttgac ag 442

<210> 10040  
<211> 411  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-F11  
<400> 10040

caggtgaggg ataaacaaat tgtgcgagta cttgggaagg caccaacaat agcagcggct 60  
gcctacttga gattagcagg aagacctccc gtccttcctt taaatactct atcttattca 120  
gagaacttct tgtacatgct ggactctttg ggtgacagaa catataaacc aaatcctcga 180  
cttgctcgag ctctagatat tctttttatt ctgcatgctg aacatgaaat gaactgctcc 240  
actgctgctg ttaggcacct tgcttcaagt ggtgtggatg tatttactgc tctttctggt 300  
ggtgttggag ctctatatgg tcctctgcat ggcggcgcaa acgaggcagt acttaaaatg 360

ttaaatgaga ttggaagcat ggaaaatatt ccagatttca ttgtaggagt g 411

<210> 10041

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D7

<400> 10041

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tacttcgttc caatctctgg ttttgaaggc gacaacatga ttgagaggtc caccaacctt 120  
gactggtaca agggcccaac cctacttgag gctctggact tgatcaatga gccaaagagg 180  
ccttcagaca agccccctgcg tctccccctt caggatgtgt acaagattgg tggatttggg 240  
actgtccctg ttggacgtgt tgagactggt gtcattaagc ctggtatggt tgttactttt 300  
gggcctactg gtcttactac tgagggttaag tccgttgaga tgcaccatga ggctctccag 360  
gaggcccttc ccggtgacaa tgttggtctc aacgtgaaga atgttgctgt gaatgatctg 420  
aagcgtgggt atgt 434

<210> 10042

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-E1

<400> 10042

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tgccagcgct caggcaacta gccatggtga accctggcgg ctacctaaa cagcaacagc 120  
tgctttcatc tagcccgtc gctgtggcca atgcacctac atacctgcag caacaattga 180  
cgcgacagat tgtaccagct ctgactcagc tagatgtggc aaaccctgct gtctacttgc 240  
aacagctgct tacattcaac caactgacta tgtcgaactc tgatgtgtac ctacaacagt 300  
gacgacagtt gcttaatata ctagcaatgg ctaaccatt gg 342

<210> 10043

<211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-E11  
  
 <400> 10043  
  
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 cgcgttggtg gtcaggcgaa tccggttaag aagcagactg ctgccacgct gagttacata 120  
 cagtcttggg acaagttgca gtcggagata agaaaccgac gtgctttcat ggtcaccgaa 180  
 ggacgcaaca ggaagaagaa gcaggagAAC caaatgaaac ttgaggcaaa actgcataat 240  
 ttgcagattg aatggaatgg aggcctcgat actatggatg aaattcttgc taggatacaa 300  
 caacgggaag aagcagcagt aaagcgtgag cgagccatgg cgtacgcgtt caaccatcag 360  
 tggagagcaa ggtctgccac aagtctagga aacttcagct atgaagtcgg t 411

<210> 10044  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-E12  
  
 <400> 10044  
  
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 cctccttatg ctcttggtc tttctgcaag tgctgctacc gcgaccattt tcccgcaatg 120  
 ctcaagct cctatagctt ccttcttcc cccgtacctc tcaccagcgg tgtcttcggt 180  
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttggtcc tccaacaatc atcagcccta ttacagcagt tacctttggt 300  
 gcatttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactagctg c 411

<210> 10045  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-E2  
  
 <400> 10045

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 ggaatgattt ccatcttttg aatactgaaa agctttgtca aatgatggaa atcatttcac 120  
 cactgcaagc tctgtgaaac aagccattga gtatcctaata cttttttttt tacaatagat 180  
 atattagaac tcgcatctta tttgagagtt atactatttt acttaccagt acagttcctt 240  
 aactggttgc tgcagacctc ttaaaaaatg tggggtcagt gatggagaga tatgcatgat 300  
 agcaaacatt gtgcctgaga ccgttgaaga ggtttacgca ctaatgccat ctctcaaggc 360  
 taataggtca gctatcgaaa gttcagtcac cgaggttctt accgtcctcg caaacatatt 420  
 agcttgc 427

<210> 10046  
 <211> 210  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E3  
 <400> 10046

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 ggcgaaacaa cgcgacacct acacctcgct cgtccgtagc catcgttgct ctccgctcgc 120  
 atgtcaccgt taacgcgcgt aattctgcac tctaagctga tatgctgcta tcgctaacca 180  
 gctcaacacg ctccacggat gaacgatagc 210

<210> 10047  
 <211> 174  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E4  
 <400> 10047

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 cccataatca gattctgtat gagcaggcac ttaactcatc attgggtctta gctggcgaaa 120  
 tcacatgca ccatactcgt atctccattc ttcaagtact tgctcttctt ctta 174

<210> 10048  
 <211> 455

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E5  
 <400> 10048

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 cccataggag gatactgaga gaaggtctca accaccatgg gcttagtggg aatcatcttc 120  
 accataccgg catcaccatt cttcaggaac ttgggctcct tctcaagctc cttgccagac 180  
 cgcctatcga tcttggttat gagctcagca aacttgacag caatgtggga ggtgtggcag 240  
 tccagcactg tggcatagcc attgccaatc tgcccagggt gggtcatgat gatgacttgg 300  
 gaggtgaagc tagcagccta cttggcaggg tcatccttag agttggaggc cacgtaccca 360  
 cgtttgagat ccttcacagc aacgttcttc acattgaagc caacattgtc accaggaagg 420  
 gccttccgga cgcgtggggc atttacaccg tgtga 455

<210> 10049  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E6  
 <400> 10049

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 aaatgcttgg gctcagtact tgctctatgg ctggagctgc gattttgcgg atactgcaag 120  
 tcctatctac actaacttcg tgtgtgatgg atagtagaca tgagcaagat ttaggacagg 180  
 aagagcagtc ttttctgtgg gatctgaatg ctgggtcttca acctttgtgg caagagttaa 240  
 gtgattgtat aagtgccaca gaggcaaaac ttgtacacaa ttcatcattc gcttcccatg 300  
 ccccatcggt ggatgcttta gcagttagtg cttcatcatc tgttgcttca ccgcttctc 360  
 caggcactca gcgcttggtg ccgttcatag aatcatcctt tgccctatgc gagaagc 417

<210> 10050  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-E8



<400> 10050

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taatgtcttc aacactgtca tcttgcgagg acgatgagaa ggtatctatc gcatgtgaca 120

caggatgcaa tgccgcgatc tcccgcctca aatgcttcct gatggcctat tctgaaggga 180

aagtgttggt cagcagcaac tgcgaaacgc cgaccagggtg cggctgcgtg tttcgtcaca 240

aacaagatgc agcccttatt gccggcgacg ttggcaacaa aaagggatac tgatggcaga 300

cgtgtacttc ttggttgaat aatactgcta gaattaatat gggcaccaac gaaatatcta 360

taatgttatt cttcagtgtg atgcttccag catgttctgt tttagtataa ctaaatatct 420

atctttcccc ccc 433

<210> 10051

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-E9

<400> 10051

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acctagctgt gcaagcctac aggctacaac aagcgcttgc ggcgagcgtc ttacaacaac 120

caattaacca attgcaacaa caatccttgg cacatctaac catacaaacc atcgcaaacac 180

aacagcaaca acagttccta ccagcactga gccaaactaga tgtggtgaac cctgtcgcct 240

acttgcaaca gcaggtgctt gcatccaacc cacttgctct ggcaaacgta gctgcatacc 300

aacaacaaca acaattgcaa cagtttctgc cagcgctcag tcaactagcc atggtgaacc 360

ctgccgncta cctacaacag caacaactgc tttcatctag ccctctc 407

<210> 10052

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F1

<400> 10052

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 ccgggtggtg gcctgtcgga agcgactggg gcagcgccgc cgaggacggg ttcattggtcg 180  
 acgtcgacgt cgacgacggg agctcgctgt tcgggcccgt gtccccggg ctgttcgcgc 240  
 gcgtcgacgc cgccgcgttc ggcttcggcg acatgctcgc gtcgtacctg cacaaaccgt 300  
 tctgatgcaa cgcgacgcga gcgcgcggcc accccgcgcc tgcgtgctcc tctaggccac 360  
 tgaccactga catggacatt ctggtcgtcg tgtagctcgg ttcaggacga atcgagagcc 420  
 ggccggtcta ggtgtagtgc tgcgaaacca acacca 456

<210> 10053  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-D6  
 <400> 10053

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 catccaagac agggatcgcc atgtcggact cggaggagca ccacttcgaa tcgaaggccg 120  
 acgtcggggc gtccaagacc taccgcgacg aggctggcac cgtccgtaag aacggcttca 180  
 tcgtcatcaa gaaccgcccc tgcaagggtg tggaggtttc tacctccaag actggtaagc 240  
 atggccacgc caaatgccac tgtgtcgcca tagacatatt caatgggaaa aagcttgaag 300  
 atattgttcc ttcattcacac aactgtgaca ttccgcatgt gaaccgcact gagtatcagc 360  
 tgattgatat ttctgaggat ggatttgtga gccttcttac ttcagatggc agcactcagg 420  
 atgatcttag actcccaact gatgagact 449

<210> 10054  
 <211> 142  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-C12  
 <400> 10054

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gatccaacaa caaacattgt ctcacaatgt gattgattgt agaagcaagc ttttgtcaca 120  
 gggcgatggt gctcacttgt gg 142

<210> 10055  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C2

<400> 10055

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 gcgtcggatg ttgagtaccg ctgcttcgtc ggcggcctcg cctgggcccac ggacgaccac 180  
 tccctccaca acgccttcag cacctacggc gaggtcctcg agtccaagat catcctcgat 240  
 cgggagacgc agagggtccc cggttcggc ttcgtcacct tctccacgga ggaggcgatg 300  
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 gagggccagt cccgcggcgg tcgt 384

<210> 10056  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C3

<400> 10056

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 ccattcacca gcttatgggt gcacgtagga tggcattgtc atgcactcat gctaaaacga 180  
 tgaagactgt ttaatgtaga cctagatgat ctttgcggat gggagaaaag tgccagtttg 240  
 caaacttata gccagggaaa ggagaagtgg ttaagaaat cgtttggatt caacatattg 300  
 gatttatggt gagaccgtca catgattttt atttgtatgt gggcaactac tcgtgttagc 360  
 gttcaggaaa actcatacat tcggatgttg caaatcgtc ttcaaggatt tttgat 416

<210> 10057

<211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C4  
  
 <400> 10057  
  
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 ggctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120  
 ctctatagc ttcccttctt ccccgtacc tctcaccagc ggtgtcttcg gtatgtgaaa 180  
 acccaattct tcaaccctac aggatccaac aggcaatcac agctggcatc ttacctttat 240  
 cacccttggt cctccaacaa tcatcagccc tattacatca gttacctttg gtgcatttat 300  
 tggcacaaaa catcacggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360  
 actctcagca acagcagttt cttccattca accaactagc tgcattgaac tctgcttctt 420  
 atttgcaaca acaacaacta ccattcagcc agcta 455

<210> 10058  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C5  
  
 <400> 10058  
  
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 atggatectg ccataggcct cacaccttat gatgtccata agcatgttgg gtttctcaag 180  
 catctgatga taagaactgg aagaaacatc agcactggaa ctccagaagt aatgggtcaat 240  
 tttgtgacgt catgttataa gccagatgta ttgatgcctc ttgttgataa aatcacaaaa 300  
 atacctgaag tggttagtgt cataaataat gtgaactcgt ctgttggtaa ttcattctgtg 360  
 ggtgaacaag aatatacttt gtacgggaag ccaaacatta cagatatgtt gagaggactt 420  
 gcgttcaga tatct 435

<210> 10059  
 <211> 432  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C6

<400> 10059

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ggacggggcgc aacttggtat atatctaggg atgggatgtc gtttggcatg tactccattt 120  
tgaaagtgtc caagtgagac ttatatacata tatgcagttg agagatggaa ttaataataa 180  
gagcaaacgc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aacaaaatac 240  
aaaaagataa aaaaaaaaga ggacatctct gataaagaaa caaaaagaac atgaaaatgc 300  
aaaaaaaaaa gggggggggc cccaattttt ccttatcttt tcctttggga aacggggccc 360  
cccccccttg gggcaccaa atttttgatt tgggcccccc caaaattttt tggaaagccc 420  
ccttttgggg gc 432

<210> 10060

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C7

<400> 10060

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cagccagcta cctgttgect acccccagca atttcttcca ttcaaccaac tggcagcatt 120  
gaactctect gcttatctac agcagcaaca actactacca ttcagccage tagctggtgt 180  
gagccctgct accttcttga cacaaccaca gttgttgccg ttctaccage acgctgcgcc 240  
taacgctggc acctctttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 300  
aaacctagca gtgttctacc aacaacccat cattggtggt gccctctttt agatttctta 360  
tgagttatag ttcaataata aaagtttttg tctgatgttt gtggcttccc agaaataaga 420  
aagtacattt ctagattc 438

<210> 10061

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C9

<400> 10061

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ggccccgggt cgctgctgct cacctcgggc cccgcgcaca agcgcctcca ctgcctcacg 180  
ctgacccgcc tcggccgccc ggctcgcgcg ccgctgctgg cgcacatcga ccgcctcgtc 240  
ctcgccacca tgccggggctg ggaccgcccc ggcgccgtgc gcctcctcga cgaggccaag 300  
aagatcacct tcaacctcac cgtgtggcag ctgcctcagca tcgagcccg gccgtggacc 360  
gagagcgtcc ggcgcgagta cgtgaagctc gtcgacggct tcttctcca 409

<210> 10062

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-D1

<400> 10062

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gctctctaag gaggtcgggt ggaactacca tgacaccatc aggggaacttg aggagaagag 180  
gaaggagaag gccaaagggt cctacgagag gaagaagcaa ttggccaagc tgcgtgtcaa 240  
ggccgagaag gcagccgagg agaagttggg gtctcagttg gagattcttg cccctatcaa 300  
gtactgaaga gctgtgcttt gtcacagtt ttggggaaca tctagtcttt gttttaagtg 360  
ttcggttaaca gtttgtgaca gtataatctg gtaaaccgtg ttattnttct gccactccta 420  
tttgaacaca ttttct 436

<210> 10063

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D10

<400> 10063

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catgtcggcc tactgcggaa agtacaagga tgagtcctc aagaatgctg cctacattgg 120  
caccctggc aagggtatcc ttgctgctga tgagtccact ggcaccattg gcaagcgct 180  
ttccagcatc aatgtcgaga acgttgagga gaaccgctg gccctccgtg agctcctatt 240  
ctgctgccct ggtgctctcc agtacatcag cgggtgtgat ctcttcgagg agaccctgta 300  
ccagaagacc aacgatggca agccttttgt tgatgtctc aaggagggag gcgtgctccc 360  
tggcatcaag gttgacaagg gcacca 386

<210> 10064  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-035-Q1-K1-D11  
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atgtgctctt agcatgtttg caatgaatat actggaattc ataccatttt agttgtgtca 120  
tgctacaggg ccatttttgt acttttctc atggagcatc tagcaatcac agccggctat 180  
gtgttcaaca tcaaagggtg tctgcagct ccaccagaa ctatgctctt tctaggaagg 240  
atTTTTctcc tataactcaa gatgtggaag gcttcttca caatgttggt aacatggggt 300  
ttcttgaccg tctgaaatta gcgtggaaga taatgttttc tgcaccaacc acaaaggata 360  
cctccaatgc aaacatcgca naacagaggc ttaagatgat cctgttc 407

<210> 10065  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-035-Q1-K1-D12  
<400> 10065

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tggtggagga tgcacccttt tgcggcttgc agctaaagtc gatgccatca aggatacact 120

ggagaacgat gagcagaagg ttggagctga aatagtaagg agggccctga gctacccact 180  
 taaattgatt gctaaaaatg ccggtgtcaa tggcagcgtc gtcactgaga aggtcctttc 240  
 taacgataac ttcaagtatg gttacaatgc tgctactgga cagtacgagg acttgatggc 300  
 tgctgggtatc attgatccta ctaagggtggg gagatgctgt ttggagcatg ccgcgtcggg 360  
 ggccaagacc ttctgacat ctgatgttgt ggtcgtcgat at 402

<210> 10066

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D2

<400> 10066

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 gctgagaaaag cttcgaatgt tgtttctgat ggaagagagg agcataagtt aaaagtgcc 120  
 acatcagaaa cttcaaatgt ggtttatgat ccaagtccaa gggatgggca gaacttagat 180  
 tcatcaccga cagctgtacc tttggctggt acaatgaata aaaaagagca tgtgattgat 240  
 atggaaaagg ctgataatgt tggtgaggac caactgcac ctccgcagcc aatggcactg 300  
 cggactgaaa aagtcactgt caatcccagt gtacgtacaa gaaggggaag agtaccttca 360  
 gttgaaaagg tggaatcgac gactactgtc aagtcctttt ccattgcac cttcaacaa 420  
 tataccaata gtttcagtga ggaaaatatc at 452

<210> 10067

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D3

<400> 10067

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 aacatcacta cacttctaaa tgtaacttat catccaagtc caacgctatc tcactactta 180  
 gattcatcac ctaccgatcc acttttgcca ggtacaatta ataacacata gcacgtaatt 240



tatatatcca aacctgatta ttacgacgtc taccaactga atactcctca tacaccgac 299

<210> 10068

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D4

<400> 10068

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tgaaaagcag attgagatga tcaccaagca aggggttatgc agcctccgca tttgcatggc 120

gaagactcag aactcattct cacatgtacc gtacatgaag ggcgctccga ccaggctgtg 180

ctatgtcgat aagagacgtg agggccaaca tcggcgctgg gcacatctac ccgatcgatg 240

ggcaccatga gcacgatgcc tggccttctg accagaccat gcgtttacca gatcgacgtc 300

gacactggca tcgggaaggt catggggctg tcatgaattg aacgacgtga tggatatcatt 360

cagagaacgt atattcgggtg gcatccctgg atcgagt 397

<210> 10069

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D5

<400> 10069

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cttatgatca gaataattca tcagcaccag ctcatcatgt ttaagcggcg aatcccatgt 120

ttggactctt acctagacaa agttaatatg tcaactctggc ctgcgttcaa gatgggtgttc 180

gacttgcatt tgaacagctt gcgaaatgca aatattaaaa cactttggga ggatgatgtc 240

catccacact atgttacaag gagatatgct gaatttacag cttctctagt tcatctcaat 300

gttgagcatg gggacggtca gcttgatcta aatttggagc gattgcggat ggccattgag 360

gatttgcttg ttaagttggc tcaagatggt ttccaaaccg aagctacaaa ctgtctttct 420

gataaacaac tatgatttaa caatttccat tttgaaggaa gctgg 465

<210> 10070

<211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C11  
  
 <400> 10070  
  
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 tggaatccgt ggcgccgcgg ctgccgaacg tcactttcct cgacatcagc agctgcacga 120  
 agatggggggc ccgcggcctg gagggcgttcg gcaagcactg caagtccctg gcggggctgc 180  
 ggcggtgat gcacccgatc gacctggcgg acagggcgtg ccagcacgac gagggcgacg 240  
 ccatcgctg cagcatgccc aggctgcggc acctggagat ggggtacatg ctggtggcga 300  
 cggaggcggg ggcggagatc ctggggcggg gccgcgagct caggttcctg gacctgcgcg 360  
 gctgctgggc ggtggacgac aagc 384

<210> 10071  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-A9  
  
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 gcatcgccga ggaccgccgt agcgatttgc gaagcaaggg acgggagagg aacccgagga 120  
 aggcgaaaat gatctaccgc aactggtcgc tgctctcgtc cacagtcgtc atttggggcg 180  
 gcgtcgccac cgccggcctc gccggtatct tctcttggg cggcaaggag aaattcaatg 240  
 gttatctgtg ccgcgaaggc gagaggctta ggcagcagga cagagccgcg atgggccgaa 300  
 gctaagcgtt agcttctttg gtatctcaag ggagcaatag ccttcgaaa tttcacaaga 360  
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<210> 10072  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-B1

<400> 10072

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aagcccaagt tattggatga gaagcagacc accatctaca aaagggtgt agacaagaat 120

tataacctga agatgaaagc gtcaagattt attttcagt aaatcagcca gaagttccca 180

atcatgccct tctactgctag ggcattagaa gagaagcgtg cacgcttagg cttggtggaa 240

tgcataaacc atgagctatt gcagccgtac cctgtacttc atgagaagcc aggtgacctt 300

gttgacacaca taaagttcac tgtgctgcta atgcccaatg gatcggatag gattacatca 360

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<210> 10073

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B11

<400> 10073

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ctgagccaac tagctgtggt gaaccctgtc gcctacttgc aacagcagtt gcttgcaccc 120

aaccacttg ctctggcaaa catagttgca taccaacaac aacaacaatt gcaacagttt 180

ctaccagcgc tcagtcaact agccatggtg aaccctgccg cctacctaca acagcaacaa 240

ctgatttcat ctagccctct cgctgtggtt aatgcaccta catacctgca acaacagttg 300

ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg caaaccctgc tgcctacttg 360

caacagctgc ttccattcaa ccaactgact gtgtcgaact cttctgcgta 410

<210> 10074

<211> 402

<212> DNA

<213> Zea mays

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<400> 10074

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cgatcgatcg agagagagag agagagagca tggctggcag gagtttcctg attcgggtccc 120

ccaaggagga ggagtcacaac gccgccgtca gagaagctgt actgctggga gcaaagaacg 180  
 ccgcaatagc tgggtactgtg gttgcagttc ccacgttggt tggctgccgt gtccttcctt 240  
 gggctaaggc gaatctcaac tacactgcac aagcactcat tatactctgca gcctgtattg 300  
 ctggcttctt catcactgct gacaaaacca ttctacggaa cgcacgacaa atcaccatcg 360  
 ggaagcttga caagtcaact tgatgcatag atgtagctga ag 402

<210> 10075  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-035-Q1-K1-B2

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 cagggccttg atcttaactc aggccctgga agtatagatt tagaaggaaa ggatgaacgg 180  
 atgcctttac cagtcagaca aaatttgatc ccaccctac atggctttgt ggaggatcaa 240  
 ggaagaattt accaaatgcc agttgtagga acaaagagaa aggaacctga tggcagttgg 300  
 gactcagaaa ggtctacata caagcagtta ccatggcaat gagggctctg aaagagatca 360  
 ttttgcaccg actggtctgc gaatgagcat atcacctgca tgtanagctt ggcccgtgtg 420  
 ttcttcagtc actggactac ac 442

<210> 10076  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-B3

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 aaagtacctt gaaacagacg atggacttct catacactga ggagtacaaa gctcttgcta 180  
 actgtcttga agatatgaag aacctgattg ccgatactgc ctaggttgat gcatgcaagt 240

tttggacgct ggatatgata atgtattggc cgttttctaataagcattgc tattgttgtc 300  
 ttgttgggaa tcaagatcac attatcggac tctgttaaca cacacagaga tgccaagaca 360  
 agtgaacctg cgccagagac tgtaagcgaa tatgggtgtgc tgctaca 407

<210> 10077  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-B4  
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 aggtgccaat tcatacgtcg aggggtggtga ggacgaaagc gttgatgaca cagctgcgaa 180  
 cgtggttgat attgttgaca catttcgtgt acaggagcaa cctccttttg acaagaaatc 240  
 atttgctct tacatcaaaa aatacatgaa gaatctcact gctgtgttgc agccagagaa 300  
 agcggatgag ttcataaagg gtgtcgaggg tgctaccaag tttcttctta gcaagctgca 360  
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<210> 10078  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-B5  
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 catgcaagaa ctaaaacaca tcttgtagaa aataaaatgt tgagcagttc tgttgaaaat 180  
 aaatttatcg ttaatggagg atctgcaatg cagacagacc atggacaaga gtttctttct 240  
 gatgttgctc atcaaggtag cttaagagta gatgaactag caaagttact agcttgagag 300  
 gtgattgctc ttttatcaac cacatagacc agtatcaaca tcctttgaaa catatgcaag 360  
 atttgcata actctgaatt ggttaaaaca ggtctcaagt ctgttgcgctc gtggtgagtc 420

ctttttaacc ttgaaatact gaactataat cctgtgcat gt 462

<210> 10079

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-B7

<400> 10079

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ctgttggcgg cgcagatagc gcagcaactg acggcgatgt gcggcctgca gcagccgact 240

ccatgcccct acgctgctgc cggcgggtgt cccactgaa gaaactatgt gctgtagtat 300

agccgctggc tagctagcta gttgagtcac ttagcggcga tgattgagta ataattgtgtc 360

acgcataacc atgggtggca gtgtcagtg gagcaatgac ctgaatgaac aattgaaatg 420

aanaa 425

<210> 10080

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B8

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acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcag 120

ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcctactctc agcaacaaca 180

gtttcttcca ttcaaccaac tagctgcatt gaactctgct tcttatttgc aacaacaaca 240

actaccattc agccagctat ctgctgcta cccccagcaa tttcttccat tcaaccaact 300

gacagctttg aactctcctg cttatttaca gcagcaacaa ctactaccat tcagccagct 360

agctggtgtg agccctgcta ccttcttgac acaaccacaa ttgttgccgt tctaccagca 420

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453

<210> 10081

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B9

<400> 10081

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gaatgacact tagttccttt tcagcgtttg ccaccgccgc cacccaactt ggggcctttg 180  
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ttcgcttctt tctcatcctt ggtcttcttg atgcgctcct tgatctcacg aagagcagct 300  
tctctagcag catctcggac ttcaggcttc tcagctctct tcttctggat cacttccaag 360  
gaagcaccca caatggacct cgagtatggc ttcttgggtg c 401

<210> 10082

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C1

<400> 10082

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ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt cttcccccat 180  
accttccatc aatgatagct tcagtatgtg aaaaccagc tcttcagccc tataggctcc 240  
aacaagcaat cgcagcaagc aacatacctt tatcaccctt gttgtttcaa caatcgccag 300  
ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acagcagctg cagcaactcg 360  
tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct cagcaacaac 420  
aatttcttcc attcaaccaa ctgtctacac t 451

<210> 10083

<211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-C10  
  
 <400> 10083  
  
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 agaaatcatt ggatgcttat caaacatcaa gtgactctag aaggcctcat cttgttaatg 180  
 cacatcaagt ctgttgatcc ctattctcag gaagccaata aatcatccaa gccatatgtt 240  
 gatcaaatac ctacagctac taaaccacat gtcgagaaag tcacaactgc tctcaagcct 300  
 tatactgaaa gatcacgaca tgtatatgga cagtttcttg agacagctac tacatatcat 360  
 ccagcagctc acgcaactat ctoggattac cttcacccggc atgagtttac aa 412

<210> 10084  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cccatctgtg gaacaacaca acagtgtgga agtgccacaa gcggctcctg taaaggaacc 240  
 tgatgctgtt gctcagataa gtgagaccat gcagaaacag agcatttcta ctgaaagcca 300  
 gggcaatgca caaggcaagc aacagagaaa gtgcaaggag tgtgatgtac tcgtggagga 360  
 caagctntac agagagcact gcaagagtgg gtggcacata cacaactaca cagccacan 420  
 gaatgggctc 430

<210> 10085  
 <211> 241  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-034-Q1-K1-H3

<400> 10085

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actaaccaac aaccagatcg cctattttcaa ggacaccttt aacctcttcg acaatgaccg 180  
ctacaatttc attacaacca aagatcaatt aacttttcatt ccatcacttt ttcaaaaccc 240  
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<210> 10086

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-H4

<400> 10086

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aacaacagtt gctggaacaa aatggaccaa ctctgactca actagctggg gcaaaccctg 120  
ctgcctactt acaacagttg ctccattca accaactggc tgtgtcaaac tctgctgcgt 180  
acctacaaca gcgacaacag ttacttaatc cattggcagt ggctaaccga ttggtcgcta 240  
ccttnttgca gcagcaacaa caattgctgc catacaacca gttctctttg atgaaccctg 300  
ccttgagca acccatcggt tgaggtgcca tcttttagat tacatatgag atgtactcga 360  
caatggtgcc ctcataccga catgtgtttc ctagaaataa tcaatatatt gattgagatt 420  
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<210> 10087

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H5

<400> 10087

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ttcctggtgg agtccaactc ggatgacccg caggcgcaca gcgtcatgaa ccgtgtcatc 120  
gcctggcgcg ccatcgccaa gcacgccaag aactggaagg gcgtggacta cctcgtcttc 180  
aactcataca tctggtggct caacacattc gagatgaaag tcattcgccg tcatcagcat 240  
cagcttgaaa aggaggagga gggggtgagg tggagcaagt acgcccttgt ggaccggccg 300  
gtggcgtagc gggaggtgct caagacgtgg gccaggtggg tggaccgcca catcgacccc 360  
aaccgaacaa gagtcttctt catgggcatg tcgccaacc acgtcacgcc gtgggcgtgg 420  
ggtaa 425

<210> 10088

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H6

<400> 10088

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cttggtcagc cttgttcctc caacaatcat cagccctatt acagcagtta cctttggtgc 120  
atttattggc aaaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccctg 180  
ctgectactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 240  
ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat 300  
ttcttccatt caaccaactg gcatcattga actctctgc ttatttacag cagcaacaac 360  
tactaccatt cagccagcta gctggtgtga gcctgctgc cttcttgaca caacaacagt 420  
tattgccgtt ctacctgcac gctgcgcta acgt 455

<210> 10089

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H7

<400> 10089

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ttggcagagg tactgaagca attgaaggac aaatcattaa agcgagcagg gctgactgaa 120

gaacaattgc aagagcagat tgagcagaga aatgtcgcaa ggaagaataa gcagtttgag 180  
 atatctgatg gaatcaggaa aaaccttgct accaaaggca tcgccctgat ggacgaacct 240  
 tctggtacag tatggagacc atgcgaacca gagcggctctg aagagtcatt attagctcac 300  
 tgactcaaca agtgcggtgc gtgtaaaatg agatttttgc ctgagggcag ttatcgcatt 360  
 ttgaagacta acaaaaatcg ccattctcttg atgtggtatt ctacagggta 410

<210> 10090

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H8

<400> 10090

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 acacgtccag caagccgact gcctccatcg tcttcaacgg cagggcgctg ggcaccgctc 180  
 cagctcccgt cgtcgcctac ttctcatcca gggggcctag cactgcgagc cctggcatct 240  
 tgaagccaga cgtcattggg cccggcgta acgtcgttgc ggcatggccg ttcaaggctc 300  
 ggccaacaac aaacaccgtc ggccgtgacc gtgacgacga cgaccaacat ggagcagcag 360  
 cagctacttt caactccgta tctggaacat ccattgtctg acctcacctc agcggcatcg 420  
 cagctgtcat caagagcgca ca 442

<210> 10091

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-A1

<400> 10091

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 aatggcaaag ttggatgagg agtccgagga gctgcaccag aagttcctgg agaaggacat 180  
 cgaccttcca acctttgtgc agaagtacaa gaagctccgc acggcttacc acaagcaggc 240

gttgctccat ctgcgcggcc agacatcact ccgctgacat ccggccaggc gtcattggcaa 300  
 ctttgttgta tttctgctcg cctgttcttg ttctacacta tgcttgggcc tgttttacga 360  
 gtgcagcctc ttgtagggat ttgccgaaca tcagcggata ttgcatgtat agttntatgt 420  
 cttgcaaaaa cgtcttatgt actctgg 447

<210> 10092  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-A12  
 <400> 10092

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 atgaggcaga gatccaagta ggctgatggg gattgtggat ggtggtgtcg gcatagttgt 180  
 gttacgtttc ttcatgctg gagttcatgg agagatgtca catcctagtt cgtcgtcacc 240  
 gtttgccatg ggtccaatgg ctgctcttgg aaacctgcac ttcagtaggc catctatcgt 300  
 ggtttctagc tatatccaga gttttgtgct aagacaaatc agtcagtcgt tttgtgaacc 360  
 tattatgatg gagctttatt tgctgcta atcgacctac ctgttaagta aaaa 414

<210> 10093  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-A2  
 <400> 10093

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 gaggggtatt cctgatggaa tggatcatga aaagattacc agcgaaagcc aacgaggcta 120  
 tctggctcct gagtacatta tggtcgacaa accaactgca agttgtgatg tatacagctt 180  
 tggaataata ctattggagc ttgctagcgg caaactgccg atagaaaagt catgctctgt 240  
 taagacatat ggaattcgaa actcgttgct cccgctggca aggcacggca gatatgatga 300  
 aattgcagac tcataactga gcgacaaggt ctctgaatct gaactgacat gaat 354

<210> 10094  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-035-Q1-K1-A4  
  
 <400> 10094  
  
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 tatgaactct ggatgtgttg agacactcat actgtagcct ttaagggat gagttttgat 120  
 gtttaaattg gtcttctgaa tgtttttaag cgtgctggga cttctcatgt gatgcttaca 180  
 taatcgagtc caagaattga tggttctaaa aaaaaaaca aagataaaaa caagcaaaca 240  
 tagaacatta aaaatatgca aatcataact tccctgacat acggccaggt atctatgcaa 300  
 caatgaaaaa aaaaaggggg gcccttttta agggccaag tt 342

<210> 10095  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gccgaggaag aagtcggtga cgaggtccgt gaaggccggg ctccagttcc ccgtcggccg 180  
 catcgggagc tacctcaaga agggccgcta cgcgcagcgc gtcggcagcg gtgccccgt 240  
 ctacctcgcg gccgtcctgg agtacctcgc cgctgaggtc ctggagctcg ccggcaacgc 300  
 tgccaaggac aacaagaaga cgcgcacgt cccgcgccac gtgctgctgg cgatccgcaa 360  
 cgacgaggag ctcgggaagc tgctgaccgg cgtgaccatc gnccacggcg gcgtgttgcc 420  
 caacatcaac ccggtcctgc tgccaag 448

<210> 10096  
 <211> 447  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A7

<400> 10096

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acgagccgga gagcatgcgt gagctgcggc tggtagacca caagcacgag tgggggttca 120  
tgcagtcgtc cccggacgag gcgtcgctgc tgcggatgct gatcaagctg agcggcgcgc 180  
ggcggacgct ggaggtgggc gtgttcacgg gctactcgct gctggcgacg gctctggcgc 240  
tgcccgccga cggcaaggtc atcgcatctc acgtgagccg cgagtactac gacatcggcc 300  
gccccctcat cgagcgcgcc ggggtggcgg gcaagggtga cttccgggag ggccccgcgc 360  
tggagcagct ggacgagctc ctcgccgacc cggccaacca cggcgccttc gacttcgcct 420  
tcgtcgacgc cgacaagcct aactacg 447

<210> 10097

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F7

<400> 10097

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aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 180  
ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac 240  
actgaaccct gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc 300  
ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 360  
ttatttgag cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcctt 420  
cttcttgaca cagcaacag 439

<210> 10098

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F8

<400> 10098

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gacgccgctg agaacacgat ggtggcatac aaggctgccc aggacattgc tctggctgag 120  
cttgctccaa ctcaccctat taggcttgga ctggcactta acttctcagt gttctactat 180  
gagattctga actcacctga tcgcgcctgc agtcttgcaa agcaggcttt tgacgaggcc 240  
atctcggaac tggacaccct gagcgaggag tcctacaagg acagcacttt gatcatgcag 300  
ctccttcgtg ataacttgac cctatggacc tctgacatct cggaggaccc tgctgaagag 360  
attagggagg cgcccaagcg ggactcgagt gaggggcagt aaagccggct ttatgtgcct 420  
agaaactagt agctagt 437

<210> 10099

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F9

<400> 10099

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tgacggagat gtacagagcg attttcttgc ccaaggtttt ggttctctgg gtttgatgac 180  
ttctgtgctg ttgtcttctg acgggaaaac attacaggct gaggtgctc atgggactgt 240  
cactagacat ttcaggctac atcagaaagg acaggagaca agtaccaaca gtattgcctc 300  
catattoctt tggaccectg gacttgaaca cagggcaaag ctggataaaa atgatagtct 360  
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<210> 10100

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G1

<400> 10100

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ccaggcttgg ctggagctaa tattatggaa aggcttcgga atgctcctgt tgatacaaac 120  
catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 180  
aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 240  
gaacctgtgt gcttatttgc agcaacaact attaccattc atccagctag ctactgccta 300  
ctttcagcaa caacaacttc ttccatttaa ccaattggcc tcactgaacc ccgctgctta 360  
tttgcagcaa caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt 420  
cttgacacaa caac 434

<210> 10101  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-034-Q1-K1-G12  
<400> 10101

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ctgctaatacc cagtcaaatc gaagcaagca tggccatggc ggccgtgggc gtgggcgggc 180  
cagtggcggt cctcctcccg cagcgccgcc agggcgccgt cccctggagc ggcgggcggc 240  
ggcgggcgcc cgtggcggtg cgcgcgtcgt acgaggccgg ggtgggcgtg atggcgacca 300  
aggtggggat gatgacctac ttgatccgg agacggtgaa gccggtgccg gtgaccgtgg 360  
tcgggttccg ggagggcggc aacgtggtga 390

<210> 10102  
<211> 294  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-034-Q1-K1-G2  
<400> 10102

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ctctttaatt agatttacta tgctaccaac atattcatgt cttaacactc aaccatgctc 120



attcttccat tgcggggcat gtaaattgtg tattcatttg aaaaactatc aacataactca 180  
 tgtgcatccc actgtatcaa acattcaaac attatgattg atatgattcc atgatacacg 240  
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<210> 10103

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G3

<400> 10103

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 cctttgtcat gggcaataag gctcaaagtt gccattggag ctgctagggg cttgtcattt 180  
 ttacatgatg ccgaaaacca agtcatatat cgtgatttca aggcatacaa cattcttctc 240  
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 gataaaaccc atgtatccac acaagtcatt ggtactcatg gatatgcagc tocaagagtac 360  
 attgcaacag ataacggtca gttggtggag tctgaaagag ttgcaggtga agaccctgag 420  
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<210> 10104

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-G4

<400> 10104

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 aaggcgctca acgagcacca tgtcctcctg gagggtagcc ttctgaagcc caacatggtg 180  
 actccaggct tcgacttcca gaaggtgact cctgaagtga ttgctgagta caccgttcgt 240  
 acccttcaaa ggaccgttcc tgctgctgtg cctgctgttg tcttcctctc tgggtggacag 300  
 agcgaggaag aagccacccg caacctcaat ggcatgaaca aactcagcac caaagagccc 360

tggtccctgt cttctccttt cgccgtgccc ttcaggcgag caccctcaag cctgngctgg 420  
caaggtgg 428

<210> 10105  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 10105

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ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg gcgccggcgg 180  
gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtggt cggcggcgcc 240  
ctactacgcc ggggtgtggc agacgagcgc catgtaccag ccgctccggc aacagtgtctg 300  
ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360  
gcagcttgag cgtgccgtg ccgncagcag cagcctgtac gagccagctc tgatgcagca 420  
gcaacagc 428

<210> 10106  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G6

<400> 10106

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tcaaggttgt tgtcacggaa gttcttgggt gtgggaagtt ttatgttcag acaatgggtg 180  
accagagggg ggcttcaatt caacagcagc ttgcatcttt gaaacttaaa gatgcgcggg 240  
tcattggtgc ttttaatcct gtgaagggag agatagtcct cgcacaattt agcgttgaca 300  
actcctggaa cagagctatg attgttaatg gacctcggtc tgttgaatct ccggacgaca 360

agtttgaagt attctatatt gactatggca accaagaggt ggttacctac agtcgtttac 420  
gacctgt 427

<210> 10107  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G8

<400> 10107

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ctgggcccaac tgatgctcaa tgtcatgcta aggctcgtat taatgctgac gcaaatttct 180  
atatcgctgg aagggatcct gatggtatga gccacccgac acagaatagg gacctctatg 240  
atgctgatca ctgaaagatg gttttgagca tggctactgt cctcgagagg ctcaacatcc 300  
ttgctttcaa ggacgctgca tatgacacaa agcataagaa aatggctttc ttgatccat 360  
caaggataga tgattctctc tccatcactg gcac 394

<210> 10108  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-G9

<400> 10108

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ttcaagttga taaattgtgg caacaggaga ttttgcctta cgtaggcaat atattgagaa 180  
gctactctta ctcatccacc atgaataatc tttgctgcag tggagcttca tgcggcgaa 240  
caatgcaaac gttgtacttc tttcatgcga ttgagtagtt gatgttttac ttctgttgcc 300  
accaacagtt gaacgctgta cttgcagatt gataagatct ccgtgctttc taaaaaaaaa 360  
aaagactagt gggaaaaa 377

<210> 10109

<211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-H10  
 <400> 10109  
  
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 gccagcaatt ctgaataaga gagacatatt cagggaagtt ttcattggatt ttgacccagt 180  
 atcagtctca aaattaagtg agaagaagat tategcacct ggaagcccta gcagttcctt 240  
 gttatccgaa cagaaactgc gcggtgttat tgaaaacgca cgccaaatac tcaagatcat 300  
 agaggaattt ggatcgcttg ataaatactg ttggagcttc gtgaatcaca aacctatatt 360  
 gagccggttc aggtactccc gtcaagtgcc tgtcaa 396

<210> 10110  
 <211> 274  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-F6  
 <400> 10110  
  
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 caacttgctt tgacaaaccc agcagcgctc taccaacaac ccatcattgg tgggtgccctc 180  
 ttttagattt cttatgagtt atagttcaat aataaagttt tttgtctgat gtttgtggct 240  
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 <212> DNA  
 <213> Zea mays  
  
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cgagtggcgg tgggtgcctaa tggggggcccg ggcgctgtcc ccgcggtggt gtcgccggga 120  
gctgtcggcg tggctcagcc tctcccgacc acgtcgctct acgtgggcga cctggagggg 180  
gccgtctcgg actcgcagct gtacgaactc ttcagccagg cggggcaggt ggtgtcggtg 240  
cgcgtctgca gggatgtcac ctgcgcgccg tcgctcggat acgcctacgt caactacagc 300  
aatcccttgg atgctgcgag agcattggaa gtgctgaact ttgctgctct taacaacaag 360  
cctatccggg tgatgtattc aaaccgtgat ccaagcagcc gcaggagtgg atctgctaac 420  
atctt 424

<210> 10112  
<211> 396  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 10112

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gagtccgagg tgtagcaaaa gatctggggg ttagctgggt tgagctctac aaccgagttc 120  
atgtgtttgt tgtaggggaa caacaacatc ctgaagcggg aaatataaat gtagagttga 180  
taaggctagc gaagcatatg aaggacgaag agtgtttctt gtttgatgac gaaaaggatg 240  
aactaggaga ttctcatgaa ggtgaacaaa tggaattgat atcaacaaca tattactgag 300  
ttcgcaagag attgatccca tgatgtcaga caaacaccct gttaaagcaa tgtgtgacat 360  
ccgtgatttg gggttattnt atgttgattt ttctttt 396

<210> 10113  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C5

<400> 10113

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accaagaaa cacctaaaac tggccccaac cttaaaaaag aacttgagaa gaactccaag 180

gacaaggcta atgtttcaac tgggacaaaa gatgataaga gtgtgagcaa acctaaggag 240  
gctattatca aaggcaagga ttcaaaagac gaaggcaagt cactgaagg aaaagctaag 300  
cctggtcgga aaccaaaaaa tgctggtact cctgcgggtg attctgacaa agagaagcag 360  
gaggtagaag tcaaggcagc tgaaatagag gaggcacag gaaatgcttc cacagggag 420  
aagcgt 426

<210> 10114  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C8

<400> 10114

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cactgcttat tgggatgacc cagagatgg atcatcaca ggacaaccaa acattggaag 180  
aatgggccag gaggaggagg attgacgtgc agttagctcg tgatggcttg cgtgtctaca 240  
ttgatctgta gccgtgaaag gaaaatatgc catactcagc gaaccgcgcc aggttttctg 300  
gctgatgtaa catccattcc cacttgtaga gaaagtgcaa actgactaaa aaggcgagcc 360  
tatttggtgc atcattttac gtttcgctag ttatacgtg aatctctgaa taaaaagag 420  
aaaaagaaaa gaaaagagag 440

<210> 10115  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C9

<400> 10115

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ccgagcttca gtgccttcgt tgtttgggtcc acgcagtcca cacacacaca ccagtacgtc 120  
cagctgcact gcaccaatgg ccgcgctcga ggtccaggtc ccgactgccg ctcccgtcga 180  
ggaggttgcc cagctggccg ccgcctccgc cgtcgagatc ccgaacgagg agaccgctgc 240

tccggcggtg gagaccgagg tcgtcgtcgc taaggagccg gtgccggccg aggccgagac 300  
 tgagtccaag gaggtcgagg tcgaggctga ggccgaggcc gaggccgtag ctgaggctga 360  
 gccgaccg 368

<210> 10116  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-D11  
 <400> 10116

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 tcgggctcct cctgcttct catgatcaag cgtgtgtcct ctgctccgtc cttgtccaga 120  
 tggacgatcc aatacaagca attgggacat acaatatatc ggagaagcca cgttctggcc 180  
 tttgctagtg cagatgcacc acaaggcaaa agaagctcag gtgagaatgt tgtgatgggt 240  
 gatccactgg aagctaagcg cctagctgct aaacaaatgc aagaaattag ggccaaagaa 300  
 aagctgaaga ggcgccgtca agcagaagcg atcaacgggg cattggcagt gataggactc 360  
 acggctggat tgctagtgga ggctcagaca ggaaaggaca 400

<210> 10117  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-D12  
 <400> 10117

ctgacgcgtg cgctgtttgt gaggaatgcg acatgctgaa gatagagttt ttgcagtgat 60  
 ggggcctaca cttgacgcac agggttgttc ttgtatagac aaaaggggag aaatgacacc 120  
 tccaatctcg agaattgtcg aacaaggaca gatctgacac ctcaattgcg agaaataaac 180  
 atcacagccg acagttgcat gatccctgaa cgaataaatt cagaactaga aaacagatgt 240  
 cactaaacaa catgtggtga atgttggaac ttgaactgct ctacttaagt gggcatctgc 300  
 tgctgcatgc tttgcatgga tttaatgatt cgtttatttt cttacttgta ctgaagtgtc 360  
 ctgattcggc acgatcactt gttgtgaagt gcttgaatgc tatatggtat catgagaatt 420

aataaac

427

<210> 10118  
<211> 430  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-011-Q1-K1-D2

<400> 10118

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tacaatggca tggctaacaa ctgcaatgat cctaacaacc ttaccacttc ctataaagac 120  
attaacaagg atctaagcgt acattttaag aacacactgt agactgccta tgcacttggc 180  
cagttggctt tgaccaatgc tatgctatac cttgaggatg ttattgctca catgcaggca 240  
tttccattgc acagatacta ctgttggtgt cgtcgcacct ggcacactaa gaatgatcac 300  
tccaataggc anggtccaat acatgattaa atgagaacaa tgtcactctg catttgatga 360  
acaatgctga tactcagat gatgtgcata gctaagatct tgacatgctc tatatattac 420  
acgttcatgt 430

<210> 10119  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D6

<400> 10119

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tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat tttccctcaa 120  
tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180  
gtatgtgaaa acccagctct tcaaccctat aggctccaac aagcaatcgc agcaagcaac 240  
atacctttat cacccttgtt tcaacaatcg ccagccctat ctttggtgca gtcattggta 300  
caaaccatca gggcacagca gctgcagcaa ctctgtgctac ctgtgatcaa ccaagtagct 360  
ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 420



acattgaacc gtgctgctta ttt

443

<210> 10120  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-011-Q1-K1-D7

<400> 10120

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ccgtatcccc gccacacgcc ggcgcaaggc gaggaatctg cctccccctc ctctgtggcct 120  
cccagaaagc tccagagttt cacaccaggc ctgtgggtcac aatacaaagc ttatgaggat 180  
gcagttgtgg agaacattaa aggaactatt gcggatgctc tggttcttgt gagagagcat 240  
caggcggagg caattggatg tgccactgtt gcaggattca ttctgttcag aggccctcga 300  
agatttttat accgcaatac ctttggccgt ttgaagactg agaaagattt actgaatgat 360  
gccgagcana gtatgatgga gtaccanaca tctattcaga actttgaaga aagaattcaa 420  
a 421

<210> 10121  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D8

<400> 10121

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ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgcctt cttttagatt 120  
gcttattagt tgtaattcaa taataaagtt ttctggaaat gtaacttctt atttctgggt 180  
ggccacatac atcatccaaa aataagaagt tacatttcca g 221

<210> 10122  
<211> 238  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-A7

<400> 10122

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tatcttaciaa tttaaattct attoctacat caatttttaa ccttctttac cattaaaatt 120  
ctttataaac cattcattat tttctcatca aactctcaac tcaaaaacat tctcttcttt 180  
ccattaatct ttaaattctca aatccctggt cccaactatt ttcccatatc acttcttt 238

<210> 10123

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A8

<400> 10123

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tcgagaagct attgcccgct tgactctgct gaaactcata aagggtgtct atgagcatca 120  
tcctcgacca aaacagctca tagtagagaa tgacctccct cagaagctac agaacctcat 180  
tgaagagcgc agggatggac aacggggcgg ccaacaagtg ttgggtcaaac aaatggccac 240  
ctcatgctg aaagctctgc acatcaatac agtattgtga tattgggtga tcatatgttt 300  
tcctctcaag ttgtatatgt ttgccctaga ggagaagggtg tcttttcctt ttgctctgct 360  
gtgggtggtt ctcatgagca ccagactcat ctgttggtacc tgatccctct tttttcgga 420  
gaaagggttt ttaggtgcag gat 443

<210> 10124

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B11

<400> 10124

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aaaaaaaaa aaaaaaaaaa aaaaagtaaa attttaaact acaaaaaaac cacaccaaca 120  
acaacattaa catcaaacac acaaaaatcc tccaacaccc tcaaatcatc caaccacctt 180

aaaacaccat aatttaacta ccattcttct tatctacttc taaaactaca tcattccttat 240  
 caccctatatt cattaccacc actttaatat atctatccaa ccattcttca aacaatatta 300  
 ctcaactaac atactaattc tatttc 326

<210> 10125  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B3

<400> 10125

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 agtgcaacaa atgcgttcat tattccacaa tgctcacttg ctccgagtgc cattattcca 180  
 cagttcctcc ctccagttac ttcaatgggc ttcgaaacacc cagctgtgca agcctatagg 240  
 ctacaacaag cgcttgccgc gagcgtctta gaacaaccaa ttgccaatt acaacaacaa 300  
 tccttggcac atctaaccat acaaaccatc gcaacgcagc agcaacaagc actgagccac 360  
 ctagccgtgg tgaaccctat cgctacttg caacaacagc tgcttgcac caaccactt 420  
 gctttggcaa acgtagctgc ataccaacaa 450

<210> 10126  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B4

<400> 10126

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 gcgctgggca acttactact acaataagt aatcgatatg ttcccttcca aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 180  
 aaaaaaaaaa aaaaacaaaa cataaaaaaa aaaaacataa aacgtcatatc attttcaata 240  
 gagtaacctt aattaaataa actggccact gttaaacac tttcggactc aaaaaaactt 300  
 gcctttaccc acctaaattt ccttgacgca cattcaattt tccccag 347

<210> 10127  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B5

<400> 10127

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aacgaaaccc agctgcacca gcaacttctg ccagcagacc caacgacgga agcttttggt 60
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cacgtacgag gccttcgacc gtctgtctcc tccaactcc gccggctacc ggaccgacaa 180
agtccggcga aagcggctga cggcgcagaa gaggaaagag atcaaggagg cgttcgacct 240
cttcgacatc gacggctccg gcaccatcga tgcaaggagg ctgaacgtcg cgatgagagc 300
ccttgatttc gagatgacac ctgagcaa atcgcgaggagg tggacaagga 360
cggcagctgc accatcgact tcgacgagtt cgtgcacatg atgacggaca agatgggcga 420
gcgggacgcc cgtgacgagc t 441
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<210> 10128  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B6

<400> 10128

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gaagcaaggg aatcacatcg ccatggcagc caagatgttt gcattgtggg cgctcctggc 60
tctttgtgca accgccacta gtgctaccca tatcccaggg cacttgtcac cactactgat 120
gccattggct accatgaacc catggatgca gtactgcatg aagcaacagg gggttgccaa 180
cttgctagcg tggccgaccc tgatgctgca gcaactgttg gcctcaccgc ttcagccgtg 240
ccagatgcca atgatgatgc caggatatgat gccaccgatg acaatgatgc cgatgccgaa 300
tatgatgcca tcgatgatgg tgccgactat gatgtcacca ataacgatag ctagtatgat 360
gccaccgatg atgatgcaa acatggtttc accaatgatg atgccgagta tgatgccttc 420
gacgatga 428
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<210> 10129

<211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-011-Q1-K1-B7  
  
 <400> 10129

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acgtcgaaca cggcgcggat ggaggacggc ggcgggcgacc tgcggagcac catcaagaag  180
tggaatatca tctacctgt ctacctcaac tccaagaaga cggtcgccga gggccgccgc  240
atcgccgctg ccaaggcctg cccggacccc acctgcatcg agatcgctga ctgctgttcg  300
cacctcaaga tccccacgc catcgagttg gataaggcgt accctcgggg tttcttccaa  360
gtggggaggg tcagggtgca gcttaagaaa gatgacggct ccccgctcaa tctgtctatt  420
aa                                                                 422
  
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<210> 10130  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-B8  
  
 <400> 10130

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ctggaagatg tatacccacg gatgactggc cgccgtccgc tgaagacacc gtccttcac  180
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gctggtgcaa ggtttgggtc tatgggtcta gatccccagg ctcaatgata tgaattactt  300
tcagtgaact gaggctgtga ctgatctgag atgcggcagt ctgttcctct gcgcaagttg  360
cggaactgta caagtcattg ttcttgtatt tatacaggct agatgagaat tcttgtgcat  420
  
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<210> 10131  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C1

<400> 10131

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ccggtcgctg ctggaacgtc accaagcgcg ccatctgctg ctagataaac aagcacgtga 180  
atggtcgcat catcaggaag cgtatccatg tccgctgga gcatgtgcag ccgtcccgtc 240  
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agcgcgccca ggatcatcagc accaagaggc agccgttggg cccaagcct ggcttcatgg 360  
ttgaggggac taccatcgag accgtcactc ccattccgta cgatgtggtc aatgatctta 420  
aaggctgata ctaagttggt gtttggctc 449

<210> 10132

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C10

<400> 10132

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accattttcc cacaatgctc acaagctcct atagcttcct ttcttcccc atacctctca 180  
ccagcgggtgt cttcagtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240  
atcgcagcag gcatcttacc tttatcacc ttgttctctc aacaaccgtc agccctatta 300  
cagcagttac ctttgggtgca tttgttggca caaaacatca aggcacaaca actacaacaa 360  
cttgtgctag gaaaccttgc tgctactct cagcaacagc agtttct 407

<210> 10133

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A6

<400> 10133

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ctgctgctct tctttgtggg gaactatgcg atgtatgtgt atgctgcagaa gacgtcccg 180  
ccaaagaaga agaagccggt gtcgaagaag aagctgaaga gggaaaagct gaagcagggg 240  
gtctctgctc cgaggagagta aacggccatg ctgccgatcc tcccgccag agctcctatt 300  
cacatgatta ttaaagaaaa aaatttatat atatatacca gctggagccg tagtggttga 360  
gtaactttgt tctgtagatg ctctgtcttt aatggtacat ctgtattgga gactttaatg 420  
gcctgagccg agctagtatg ctt 443

<210> 10134  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-H12  
<400> 10134

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cggtcattat tgcacaatgc tcacttgcta caagttcaat tattacacag ttcttccac 180  
cagttactcc aatgggcttc gaacaccgag ctgtgcaagc ctataggcta caacaagcaa 240  
ttgctgcaag cgttttataa caaccaattt cccagttgca acaacaatcc ttggcacatt 300  
taacattaca aaccatcgta acgcaccagc aacaacaatt cttaccagca ttgagccacc 360  
tagccatggt gaaccctgcc gcctacttgc aacagcaatt gcttgcatca aaccatttg 420  
ctctggcaaa cgtatt 436

<210> 10135  
<211> 286  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-H2  
<400> 10135

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ccgacaggag gcgcggcacc tgcgccagca ccggcactcg caaggatgag gtgacgaccc 120  
gacagtacac catcaacctt cacaagcgcc tcaacggatg cacgtttaac aagaaagcgc 180  
cgaatgccat caatgagatc acgatgatcg cccaaacaac aatggatacc aacgatgtcc 240  
ggatcgatgt gaagctcaac atgcacgtct ggagcacacg aatccg 286

<210> 10136  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H4

<400> 10136

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ccacaatggt gatccaggac gactacatcg acatggacct gaccccgga gccacaccgg 180  
agccctcgcc agcctcgccc cgcttcgagt tccagagcgc cggcgccggc gccgcccggc 240  
acaggcatag ggaggcggcg ttcgcgtccc ccgaggacga gctgttctac aagggaacc 300  
tgctgccgt ccacctgccg ccgcggctgc agctcgtgca gaggtcctc caggaccagg 360  
agcagccgcc gccgctgcga ggggcgaagc gggatgcgga gtcggatgcc acggcggcgg 420  
cggcggcaga gcg 433

<210> 10137  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H5

<400> 10137

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cgcgggcaag tccgccggca aggagggcgg cgagggcaag cgtggcaaga agaagggcaa 180  
gaagagcgtg gagacgtaca agatctacat cttcaaggtg ctgaagcagg tgcacccgga 240  
catcggcatc tcctccaagg ccatgtccat catgaactcc ttcacaaacg acatcttcga 300



gaagctggcc ggcgaggccg ccaagctcgc gcgctacaac aagaagccca ccacacctc 360  
 ccgcgagatc cagacctccg tgcgcctcgt gctccccggc gagctcgcca agcacgccgt 420  
 ctctgagggc accaa 435

<210> 10138  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H7

<400> 10138

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 ttctctgaga agggcgctct ctccgtcccc gagttcattc tcgccggcga caacctcgtc 120  
 gccaaagtgcc ccacctgggtc ctgggaagcg ggcgatccaa gcaagaggaa gccgtatctc 180  
 cccgcccaata agcagttcct cgtcacccgt aatgtgccct gtttaagacg tgccatctcg 240  
 gttgaggaag agtatgatgc agcaggagca gaggtgggtc tcgatgagga tggcgaaggc 300  
 tggcttgcaa cacatggagt gcaagcatca aagacagaag aggaggaaga cattccctct 360  
 atggacacct tggacatagg gagatctgat ggaataaagt ctatcccctc ttacttttagc 420  
 ggtggcaagg atgaa 435

<210> 10139  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H9

<400> 10139

caactatata tatacacttg cacacagcgg agtgggctac tcgagatgcg cttcgccagg 60  
 cgctgacgcc ttaggagata agtttaccta cccatagcac gtcaccacga atgggcctga 120  
 ggacattgct ggagggcaat tcgctgggtg caaatgcaca accgatattg aacgaaaacc 180  
 gtttccttgg tccaaggaga tggagcatgt atgaagtatc aggaaacggt caaaccaagt 240  
 c 241

<210> 10140  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-A10  
  
 <400> 10140  
  
 cgttcagcat tcagaacaca ccaagtcgaa gcgcactatc aacgacctaa caacgggggc 60  
 tgtcaagata ttagccatcc ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120  
 cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc tcccaccagt 180  
 tacttcaatg ggcttcgaac acctagctgt gcaagccaac atgcaacaac aagcgcttgc 240  
 ggccagcgtc ttacaacaac caattgcca attgcaacaa caatccttgc cacatctaac 300  
 aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360  
 catggtgaac cctgccgcct acttgcaaaa gcagctgatt gcattca 407

<210> 10141  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-A11  
  
 <400> 10141  
  
 agccaaaata ttatgcctcc ttatgctcct tgggtcttct gcaagtgtgt ctacagcgac 60  
 caggttcccc caatgctcac aagctcctat agcttccctt cttcccccggt acctctcacc 120  
 agtgttgtct tcagtatgtg aaaacccaat tcttcaacct tacaggatcc aacatgcaat 180  
 tgcacagggc atcttacctt tatcaccctt gtccctccaa caatcatcag ccctattaca 240  
 gcagttacct ttggtgcatt tattggcaca aaacatcagg gcacaacaac tcgtgctagc 300  
 aaaccttgct gcctactctc agcaacaaca gttacctttg gtgcatttgt tggcacaaaa 360  
 catcatggca caacaactac aacaactcgt gctagcaaac cttgctgcct actctcagca 420  
 acaa 424

<210> 10142  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A12

<400> 10142

cacaaggcca caatccaagc cgaagaaccc taggcggtgg cggcgcatcc tgcataagccc 60  
acggtagtgt cagcgagcca gcgacctcga gtagcagcag aggctccgca ggggcgaaaa 120  
ggtgtgaagc ttccttcgga gatcccagta gcagaagcaa cgcaggcatc ggcttgcgac 180  
aggagaggac ggagatgacg cagaagcaga ccctgttcaa ggggcagagc aagaagaaga 240  
ctatccctcc caaccgccac ggcaaggcgc ctcatgttcg taaaggaaag agagccgtca 300  
agcccaccaa gttcacaaag gacatggacg ccgagaagga actcaccaag ttcatcaacc 360  
agtgaacga aataaaagct gcgaatcttg cta 393

<210> 10143

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-A2

<400> 10143

cggacgcgtg cgcgaccac tcgtccttaa agatctgtca aacaaacatg tactcatggt 60  
ccgtttggac aactttgcaa aagttgacat tccagtgacc aatttgattg aagatgttaa 120  
agtgtatatt ggatgaaatt cacaaaaatc tgttcaaaac atatcaagaa aggagagatt 180  
catgtgttca ggtcgtaaac tatttgatg aattcacaac tgctctcaat aacaaaaggt 240  
acatctaggc tcctttgtgc tatgaagagg aagttcagaa agatgtgaaa tctcgcacaa 300  
acagtgaact cgcagctgcg aaaacattgt gtactccatt tgagcagcca gaacttccag 360  
aaggtattct gtgctttgca tctggaaagc c 391

<210> 10144

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-A3

<400> 10144

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 tgagtgtgtg aatgacagcg gttgctgctg gcaagacaaa tctgctaatag taacagcctg 120  
 tagggacacc ttccgtggta gagtgtgtga atgccccact ttcaatggcg tacaatttaa 180  
 aggcgatggc tacagcaatt gtgaacctgc tggaccagga aaatgcttga taaaccatgg 240  
 aggatgttgg catgaaactc gcaacggaaa aacattctct gcttgccagg aatctggaga 300  
 tgggaaatgc ctgtgcccag ctggtttccg aggggacggc gttaaaaaat gtgaagacat 360  
 tgatgagtgc aaggagaaaa aagcttgtca gtgtcctgaa tgcaactgca aagatacatg 420  
 gngtggctat gact 434

<210> 10145  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-011-Q1-K1-A4  
  
 <400> 10145

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 gagataggcg tcgtcgtttg atctgctgcc ggagtgcgaa gaggaagagg aagaggaaga 120  
 ggagcgccgg agttgtaaag atgttcctgg tggactgggt ctatggggtg ctggcatcgc 180  
 ttgggctgtg gcagaaggag gctaagatcc tcttccttgg cctcgacaac gccggcaaga 240  
 ccacctcct ccacatgctg aaggacgagc ggctcgtaca gcaccagcca acgcagtacc 300  
 ccacgtcaga agagttgagc atcggcagga tcaagttcaa ggcgttcgac cttggggggc 360  
 accagatcgc ccgccgctc tggaaggact actacgcaa ggttgatgct gttgtgtact 420  
 tgggtgatgc tgntgacaag gaacgttt 448

<210> 10146  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-A5  
  
 <400> 10146

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cgttgtctct gaagctgaca gcttcgtgac caccactggc aacaaggata tcatcatggt 120  
 tgaccacatg aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa 180  
 tgaaattgat atgctcggcc ttgagaccta ccttggcgtc aagcgcatca ccatcaagcc 240  
 ccagactgac cgctgggtgt tccccgagac caacactggc atcattgtcc ttgctgaggg 300  
 tcgcctgatg aaccttgggt gtgctactgg ccatcctagc tttgtcatgt cctgctcatt 360  
 cactaaccag gtcattgccc aacttgaact gtggaaggag aagagctctg gcaagtatga 420  
 gaagaagggt tatgtgctcc ccaagcacct tga 453

<210> 10147

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H1

<400> 10147

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 ctgccgtctc atgaccaa atccgaagga atgtgaatct cttggccttg aggacttccc 120  
 gacttcagaa cggttgaaat ggcacgatca tcagcccggg aagcctgact ggtcagagggc 180  
 aagccgattc gttgccttca ccatgaagga cgaaaccaa ggcgacatct acgtggcctt 240  
 caacaccagt caccttccgg tggttgtcgg gcttccagag cgctctgggt tccgatggga 300  
 gccggtgggt gacaccggca aggaggcacc atatgacttc ctcaccgatg gcctaccaga 360  
 tcgtgctgtc accgtatacc agttctctca tttctcaac tccaatctgt atcctatgct 420  
 cagctactc 429

<210> 10148

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F5

<400> 10148

caccactct actactcgaa gttactacca gcagcttgt tcaacagtag aagagagcga 60  
 gaggatggcg tcaccgaagc cctcgtcggc ggccctgctc ctcttggcgg cggcggccgt 120

gctggcgctg gcgcgcgcgg acctgacgca cgacaactgc gtgaagaaca agaaggtgac 180  
 ggtgcagaac ctgtgcagcc acgacgtgac gctgacgctg gagccgctgg ccaacagccc 240  
 gccgctgttc gggggcacct acacgctgca cccgcgcagc cacgccgagt tccccgtgtg 300  
 ctggtggacg ggggcgcctgc gcgcgcccga cgccgcccag gtggagtcc acgtcggcgt 360  
 cgacggcggc tccttctacc tggcccccaa cgcgcagccg ggccagcgcg tcccggtctc 420  
 cgtcaccc 428

<210> 10149  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F6  
 <400> 10149

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 aaaggtatct tgatcttatg gtaaaccatg aagtgaggca catcttcaag acacgatcta 120  
 aaattgtctc atttatccga aagtttcttg atgaccgtga atttttggag gtggagactc 180  
 cgatgatgaa catgattgct ggtggagcag ctgcaaggcc ctttgttaca catcacaatg 240  
 aattaaacat gcggcttttt atgcgcattg ctctgaatt atatctgaag gaactggttg 300  
 ttggtggatt ggaccgtgtt tatgaaattg gaaagcaatt caagaatgaa ggaattgatt 360  
 taacacacaa tcctgaattc acaacttgtg aattttatat gccgtatgcc aattataatg 420  
 att 423

<210> 10150  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F9  
 <400> 10150

attaaaaact gcaagataaa ccattctgta gttggactcc gatcttgcat atctgaaggt 60  
 gctatcatag aggacagttt actaatgggt gcggactact atgagacaga agctgataaa 120  
 aaactccttg ccgaaaaagg tggcattcct attggtattg ggaaaaattc atgcatcagg 180

agagcaatca ttgacaagaa tgctcgaatt ggagacaatg ttaaggtatt ccaaactgat 240  
gttccaacgg tcaagaatat taatttagat ttttccttag gatattacat aatacttgat 300  
atgccatfff gtccctcttat ttttaacatt tatttttgaa aatattaact tgaaaatatg 360  
aataggcttg catgctcttt tttaaatatg actgtctata cttatctttc cctaattgcc 420  
tg 422

<210> 10151  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G1

<400> 10151

gtgtgtgcac aggattcttg atcatttctt ggcaatggac caagcaaagtg gtggcgagtc 60  
cccatgcttg gatgatgtca tggcatcccc atccttgaca ccgatcacia gtgttgccaa 120  
gctaattgac ggctatcttg cagaaattgc accagatatc aatttgaagc ctccctaagtt 180  
ccaagctctg gcctctgcta ttctgaata tgcccgcca ctggatgatg gcctttatcg 240  
tgccattgat atatacttga aggctcattc ctggctgtca gaagctgaaa gggagcagtt 300  
ctgccggtg ttggactgcc agaagctctc cctggaagca tgcacccacg ccgccagaa 360  
cgagaggtg ccgttgcgcg tgggtgtgca agtcctcttc ttcgagcaac tccagctaag 420  
aacctcgatc gc 432

<210> 10152  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G10

<400> 10152

ggcattacaa cagtactcaa ttcaaggact tcagttcttg cagctgccaa tccaattgca 60  
ggacgctatg atgatcttaa gactgcacaa gataatattg atctacagac caccattctt 120  
tctagatttg atcaaacttt tattgtcaaa gatatcagaa tgtatgacca agataagcga 180  
atagcaagcc acattatcaa ggtgcatgcc agtggtgcag cagcgtcatc cgcaaacaca 240

gaggggaagtg aaggagagaa ttggcttaaa aggtacattc agtactgccg tgcaacatgc 300  
aaaccacggc tttcagaaaa agcagctgag atgctgcaga acaaataatcg gagattaga 360  
cagaaaatga ggcagcaagc tcacgagaca gggagggtg cagcaatacc catcactgtg 420  
aggcagcttg a 431

<210> 10153  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G11

<400> 10153

cccacgcgtc cggcttggca agaggaggaa agccgaagaa gatggaagtg aggaagaatt 60  
gaagaggaca agaaatgaga cagaaagcta tacaagcaat ggcagaggcc gtgggagagg 120  
tcgtgggaga ggtcgccgtg gtgtacgtgg agcttggcgg gaggtgggtca caagtcctga 180  
gcaattcaag gaggagaatc aatctagcaa ggtatatggt ctagtaaata aagtcgtcga 240  
tcaaagcatg acaactgtca aatgtatctt tgattaagta aagtatcact caagatttcc 300  
agtttc 306

<210> 10154  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G12

<400> 10154

ggagggcacc aagctaatat tccagttgca aaaggagcgc taggaagagg aagcaacgag 60  
ccatggcctc cgggtggcccg aaacccaaac tagcctacat catcttgtac gtgagggacg 120  
tggagaaggc cgcctccttc tacgacgcgc ccttcggcta caccgtccgc cgcctcgacc 180  
agtcccgaac gtgggcggag ctggagagcg gggcgacgac catcgcgctc acgccgctgc 240  
accagcggga gacggacgag ctgtcggggg cgggtgcagct gccggactcg tcggccgcgcg 300  
gccggggctc cgtagaggte tgcttcgcct acgcggaagt cgacgcggcg tacaagcgcg 360  
ccgtggacaa cggggccgtg gccgtgagcg cgccggatga caagccctgg ggccagaagt 420



ccggct

426

<210> 10155  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G2

<400> 10155

ggcggatgtg gagaaggcgc tgtgggcca gatcggcatc ttgcatggcg gtggcggcct 60  
ggtcggggac agcagctacg gggcgcagga ggaactcgac gaggaagagg ccaaggagat 120  
cgacagcgcc cgcgcgcggc gccggaaggc ggcctacgag atggccatcg cctcaggcgg 180  
cgccagctcg ctcatcctgt ccaactacgc gcagctcctg tacgagatcg acaaggacat 240  
cgagagggcg gagatgtact tcaagcaggc ggtggccgcc gagccggcgg acggcgaagc 300  
gatgcggagg tacggcatgt tcctgtggca cgcccgcggc gacacgggcg gcgcggaaga 360  
catgttcacc ggcgccattg acgcggagcc cgagagcagc caccaccgga gcagctacgc 420  
gt 422

<210> 10156  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G3

<400> 10156

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agcaacatca gtttcttcca ttcaaccaac tggctgcatt gaactctgct gcttatttgc 120  
aacaacaatt accattcagc cagctagttg ctgcctaccc ccagcaattt cttccattca 180  
accaactagc agcattgaac tctgctgctt atttacagca gcaacaacta ctaccattca 240  
gccagctagc tgatgtgagc cctgctgcct tcttgacaca acaacagttg ttgccgttct 300  
acctgcacgc tatgcctaac gctggcacc ctttacaact gcaacaattg ctgccattca 360  
accaacttgc ttgacaaac tcaacagtgt tctaccaaca acccatcatt ggtggtgccc 420  
tcttttagat tgc 433

<210> 10157  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G4

<400> 10157

cccacgcgtc cgcgagcgcg tggggaagg tgtatactta aattttctta actttctcat 60  
aatgatagc atctatcttc ttgacgagag tttgaacaaa attcttgaac tgaaagaaat 120  
agaggctgaa atggctaaca tagttgagt ggagcgcaga cctgctcaag aaagagagga 180  
gcggtcgcgt gtatttcac agtgggaaaa tattgttcgt tttgacatga ggctagccaa 240  
tgaggatgtt ggaatgcttg cattcactct gaacaaattc cagcaccttt ccttctccct 300  
gaaatggtgg aaagggttgc cagcatgctt aattacttcc tcttgcaact tgctgggtccc 360  
cagaggaaat ctttgactgt aaaggatccg gagaagtacg agttcaagcc gaagcagctt 420  
ttgaaacag 429

<210> 10158  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-G7

<400> 10158

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gagcctgttc ttagccctct cctttgtagc agctatgttt gccataggct ctcatgctga 120  
tgagactgt gagaatgacc tccaaagcct gataagtac tgcaagacat acgtgatgtt 180  
cccagctaat ccaaaggctc ctcttcgga tgcttgctgt ggtgtcatca agaaggcaaa 240  
cgtttcttgc ttgtgtcca aggtcaccaa agaaactgag aagggtgtgt gcatggagaa 300  
ggttgtgtat gttgctgagc agtgaagag gccatttgag catggcttcc agtgcggaag 360  
ctacaagggt ccagcaaact gatgatatcg caagatggaa gcgcttgacg tagtctttag 420  
atttcaattg tt 432

<210> 10159  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F4

<400> 10159

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 tcgccaacga aatccgcaac gttgaagcga agttggcgaa ggcaaccgaa ccatcgcttg 180  
 agccactggc ggcggttctt gcgccagcgc ccgcgccgcg tcgcgctcct gttttaagct 240  
 acgtcactct tgggtcggtc agctgggagc aggacaacga gaagattagg atatatgttt 300  
 cccttgaggg agttgagcaa gagaagggtg agactacttt caagccaaca tcagtggata 360  
 taaagtttca tgatgtcaaa ggcaagaatt accggtgtgc tataccaaag ctgaacaagg 420  
 aaattgttcc tg 432

<210> 10160  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E10

<400> 10160

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 accagcccac agacctgtgc aagatgatcc agatgaacga catgatcctg actctgatat 120  
 ggaagtggat gatcacaagg ctgtggaaga gtcacgagg aggagcattc taggtataaa 180  
 aatcaagaga gaatttgggtg aaaatgcgac cagagttcag gatggtggca gaatcgcat 240  
 tgaacataga ggactggaac ccatggcaga aga 273

<210> 10161  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E11

<400> 10161

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 cgttctcgtc gtgtgcctgg ctctgtcagc tgccagcgcc tctgcaatgc agatgccctg 120  
 cccctgcgcg gggctgcagg tcttgtacgg cgctggcgcc ggcctgacga cgatgatggg 180  
 cgccggcaga ctgtaccctt acgcgaggta cctgacgcag tcgcagtgca gcccgatgtc 240  
 agcagagccc tactacgccc attgtggaca gcctagcgcc atgttagagc ggttctggcg 300  
 acaccactgc catgagcata 320

<210> 10162  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E12

<400> 10162

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 cagccagcca gctgctgctt acccccagca atttcttcca ttcaaccaac tagcagcatt 180  
 gaactctcct gcctatgtac agcagcaaca actactacca ttcagccagc tagctgctgt 240  
 gagccctgct gccttcttga cacagcaaca attgttgctg ttctacctgc acgctgcgcc 300  
 taacgttggc accctcttac aactgcaaca attgctgcca ttcaaccaac ttgctttgac 360  
 aaaccagca gcgttctacc aacaacccat cattgggtggg gccctctttt agattgctta 420  
 tgagttat 428

<210> 10163  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E2

<400> 10163

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 caatagatct gatgagtggg atacattatg ctgaagataa agataacaag acttcttaca 120  
 gttaatgtat acaatcttta gcagctataa gcagactgaa ttacaccaat gttaacacta 180

gcaaggagca tatgcgcctg caaatgatta agtgaaacat atcgatctat atttcaattg 240  
 tgcagatatc tatatttgca ttactgcata gtctcgaaca tactgcaact atgaatgttt 300  
 gcctccaaat tttccataga tttcgagtca tgagagaatc gagctccata tgtcgactct 360  
 gaatttactc tcttttggat gcgatgtgca ttagcctttt cttcataaaa atcaaaatca 420  
 tccagaattg atg 433

<210> 10164  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E3

<400> 10164

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 gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 120  
 actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat tcaaccaact 180  
 ggagcattg aactctgctg cttatttaca acagcaacag ctaccaccat tcagccagct 240  
 agctgatgtg agccctgttg ccttcttgac acaacaacag ttgttgccgt tctacctgca 300  
 cgctgcgcct aacgctggca ccctcttaca actgcaacaa ttgctgccat tcaaccaact 360  
 tgctttgaca aacccaacaa cgttctacca acaaccatc attggcggtg ccctctttta 420  
 gattgcttat gagt 434

<210> 10165  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E4

<400> 10165

cggacgcgtg ggcagccggg gaaggagcac gcgatggacc cccggcccga ggccatcgtc 60  
 caggactaca aggccgcaa caagctcaag gacaagggtg cgctcgtgac cggcggcgac 120  
 tccggcatcg ggcgcgccgt gtgcctgtgc ttcgcgaagg agggcgcgac ggtggccttc 180  
 accttcgtga gggggcagga ggagaaggac gcggaggaga cgctgcgtgc gctgcgcgac 240

atcgggtccg agacggggcg gcgcgagccg atggccctgc ccgccgacct cgggtacgag 300  
 gccaaactgcc gggaggtggt ggagcgggtg gcgtcggcgt acggcggggc catcgacgtg 360  
 gtggtgaaca acgcggcgga gcagtacgag cgggagagca tcggggacgt gacgg 415

<210> 10166  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E5

<400> 10166

gcagtgcgta gagaggatcg tcgaacagaa cagcatgaag atggatcatg ttctcgtcgt 60  
 gtgcctggct ctgtcagctg ccagcgctc tgcaatgcag atgccctgcc cctgcgcggg 120  
 gctgcagggc ttgtacggcg ctggcgccg cctgacgacg atgatggcg cggcgggct 180  
 gtaccctac gcggagtacc tgaggcagcc gcagtgcagc ccgctggcg cggcgccta 240  
 ctacgccggg tgtgggcagc cgagcgccat gttccagccg ctccggcaac agtgctgcca 300  
 gcagcagatg aggatgatgg acgtgcagta cgtcgcgcaa cagctgcaga tgatgatgca 360  
 gcttgagcgt gccgct 376

<210> 10167  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E7

<400> 10167

cccagcgtcc gcccaaactg agaacatact aggatgcacg ctgcgtaacc ggctgcgcca 60  
 ttatggactt cggcttgaga acgagagcta agtgcataag aactggagcc gcgcgagccg 120  
 atgctcaagg ctcatgaagt cgatcgtaga ccaggatcatg gattatgagc acaacgttgg 180  
 ccatgctatg tagatatgat gaatcgtca tgaccaattt gatgaagcat aagattgagt 240  
 atcaagattt atttggcaca cagcttgcg ccaaactcggg 280

<210> 10168  
 <211> 324

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-E8  
  
 <400> 10168  
  
 cccacgcgtc cggttcatta ttccccaatg ctcacttgct cctagtgccca ttattccaca 60  
 gttgctccct ccagttactt caatgggctt tgaacaccca gctgtgcaag cctacaggct 120  
 acaacaagcg cttgcggcga gcgtgttaca acaaccaatt gcccaattac aacaacaatc 180  
 cttggcacat ctaaccatac aaaccatcgc aacgcaacag ctacaactat ttgtaccagc 240  
 actaaaccaa ctagctgagg tgaaccctgt cgcctacttg ctacagcact tgcttggatt 300  
 cgacgcactt gctctggcaa acat 324

<210> 10169  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-F1  
  
 <400> 10169  
  
 cccacgcgtc cgctatatatt ctagcgggtc caccacttgt aaaggctgct acaggagagg 60  
 agatatctgc tgaggacctt ggtggagcat cagtacattg caaggtatca ggagtctcag 120  
 atcatTTTgc acaagatgaa attcatggac ttgagttggg gcgaaacatt gtgaagaacc 180  
 tgcacttagc tgctaaagga acaaatattc agagttctgc ttgtggttac caagagccat 240  
 tgtacgatgt agaggaactt cgctccattg caccagctga tgtgaaacag tccttcgaca 300  
 ttcgttcaat aatagcccggt attgttgatg gaagtgaatt tgatgagttc aaaaaattgt 360  
 atggaacaac actagtgact ggttttgcaa ggatatgtgg gcaaccagtt ggaattattg 420  
 gaaacaatgg c 431

<210> 10170  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-F10  
  
 <400> 10170

attaaaaact gcaagataaa ccattctgta gttggactcc gatcttgcac atgggaaggt 60  
 gctatcatag aggacagttt actaatgggt gcggactact atgagacaga agctgataaa 120  
 aaactccttg ccgaaaaagg tggcattcct attgggtattg ggaaaaattc atgcatcagg 180  
 agagcaatca ttgacaagaa tgctcgaatt ggagacaatg ttaaggtatt ccaaactgat 240  
 gttccaacgg tcaagaatat taatttagat ttttccttag gatattacac aatacttgat 300  
 atgccatttt gtctctttat ttttaacatt tatttttgaa aatattaact tgaaagtatg 360  
 aataggcttg catgctcttt tttaaatatg actgattata cttatctttc cctaattgcc 420  
 tgcataa 427

<210> 10171  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-F11  
  
 <400> 10171

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 ggtgcagctt ggccggcagg cgcgcttggg cgcccggtgt cgggatcggt caggagcggg 120  
 tgctcgagca tggcgcggtg ggggtcccgg cggtgaggct cgccgtgtgg tacattgcgg 180  
 tggctgctgc tgtggggggg acacttctgt acgcccg 217

<210> 10172  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-F12  
  
 <400> 10172

gagaaggcgg cggcagtggt cggactcgga ggagccgggg cggcggacgc ggcgcagcag 60  
 cagcagctgg cagcagggga ggccgcggcg gcgcgggtgc ggcccggtga gacgtgctt 120  
 cgcgcggcac cgctggggct ctgcgtggcc gccatgaccg tcatgctccg taaccagcag 180  
 agcaacgagt acggcgccgt cgcctactcc gacctgggag gcttcaagta cctcgtctac 240  
 gccaacggcc tctgcgtgc ctactcgtg gtatccgctg tctacactgc cgtgccgagg 300



cctgccaccg tgctcgcgctc ctggctcgctc ttctctctcg accaggtggt cacgtacctg 360  
 atcctggcgg cgggcgcagc ggcggcggag ctggtgtacc tcgcctacaa cggtgacaag 420  
 g 421

<210> 10173  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-F2  
 <400> 10173

aaaaa caaaa cgatatataa atagcagaaa tacaaaaata gaaaaggctg atacaaggag 60  
 aggagatatac tgctgaagac cttggtggaa catcagtaca ttgcaaggta tcacgagtct 120  
 cagatcattt tgcacaagat gaaattcatg gacttgagtt ggggcgaaac attgtgaaga 180  
 acctgcactt agctgctaaa ggaacaaaata ttcagagttc tgcttggtgtggt taccaagagc 240  
 cattgtacga tgtagaggaa cttcgctcca ttgcaccagc tgatgtgaaa cagtccttcg 300  
 acattcggtc aataatagcc cgtattgttg atggaagtga atttgatgag ttcaaaaaat 360  
 cgtatggaac aacactagtg actggttttg cacggatatg tgggcaacca gttggaatta 420  
 ttggaaacaa t 431

<210> 10174  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-E1  
 <400> 10174

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 ttaagattgc accggggctg tatctaccag cacatccgtg cttctacgta aacactatat 120  
 aacaattata agcagtttca attgcaacca tataaacact ttgaaggagc gtcagtgcct 180  
 tcaactagtt cactgaccca tcttgatctt tatttcaatt gtgcagatat ctatatttgc 240  
 attactccaa agtctcgaac aaactccaac tctccatggt tgccctccaaa ttttccatag 300  
 atttcgagtc atcagagaat cgagctccat atgtcgactc tgaatttcct ctcttttggg 360

tgcgggcgtgc attcgcccttt tcttcataaaa aatcaaaaatc atccagaatt gatgtt 416

<210> 10175  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C4

<400> 10175

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accaactggc agcattgaac tctgctgctt atttacaaca gcaacagcta ccaccattca 120  
gccagctagc tgatgtgagc cctgttgccct tcttgacaca acaacagttg ttgccgttct 180  
acctgcacgc tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 240  
accaacttgc tttgacaaaac ccaacaacgt tctaccaaca acccatcatt ggcgggtgcc 300  
tcttttagat tgcttatgag ttatagttca ataatgaagt tttttggatg atgtttgtgg 360  
cttcccagaa ataagaaagt acatttctag attctaaaaa aaaaaacaaa aaacaaacac 420  
aaaa 424

<210> 10176  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C5

<400> 10176

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accaagatat tttccctcct tatgtcctt gctctttctg catgtgttgc taacgcgaca 120  
attttccctc aatgtcaca agtcctata gcttcccttc ttcccccata ccttccatca 180  
atgatagctt cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc 240  
gcagcaagca acataccttt atcacccttg ttgtttcaac aatcgccagc cctatctttg 300  
gtgcagtcac tgggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg 360  
atcaaccaag tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca 420  
ttcaaccaac tgtct 435

<210> 10177  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C7

<400> 10177

ggtaattttt ctacagatga accactgcta gcacagtagt gatccaacaa ctgctgacaa 60  
gatatttagc ctcccttaggc ttattgggtct gctgcggaca tgctgatagc acaaccatta 120  
tcacggagtg ctccagaatct gctatagcaa ccgtgctaac tccgtacctt tcacgagaga 180  
cgtcttcggt atgtgaaaac ccatttggtg aaccttataa gatccaacac gctgtcctag 240  
atggccttggt acctttatca 260

<210> 10178  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C8

<400> 10178

ctttcatgaa gcactgttca gttcagggtc aaccaaattc agctcccctg aatcatgtgc 60  
agctttgcag attatctcta acatgcattg gatttgctga acgcctgttg tgggttcaaa 120  
tgctggacct aagccataat agtctgagat cagtcgaagg attggaggct ttgcagcacc 180  
ttgtgttctt gaacatcagc aacaaccaga tcagtgggtt cacagcactt gaatccctta 240  
cgaagataat ctcatgaaa gttctggatt tatctttcaa caagattgga gctcactcaa 300  
ttgacacaac acggtatatc tgctcgtctc cattctcaca caaaatggaa gcaagtgaag 360  
cttttgaagc gtaccagaag gtaaatatca acgtggagga atactgggat gccatactgt 420  
ttttcagatc tctg 434

<210> 10179  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D10

<400> 10179

cccacgcgtc cgcccacgcg tccggcactg ttttatgtgg tcttcatgct gtcagcctgt 60  
gctctgttct caaagacatg gattgaagtt tctggttcat cagcaaagga tgttgctaag 120  
cagctcaagg aacaacaaat ggtgatgcca ggccatcgtg agtcaaactt gcagaaggaa 180  
cttaaccgat acatccccac tgccgctgca tttggtggtg tatgcattgg cgcattgacc 240  
gtcctggctg atttcatggg tgcgattggt tcaggaactg gtatattgct cgctgtgaca 300  
atcatatacc aatacttcga aacctttgag aaggaaaggg cgactgagct tggtttcttt 360  
ggtttttgat tagtagctgt ggaaccttaa cttggctata gctgaatttt cttgtaagtc 420  
cctgt 425

<210> 10180

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D11

<400> 10180

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gaacaagggg aagccgcagc cccagcgtca gcgcgcagct gagcaggaag ctccgagcgg 120  
cttcgtgctc cctgaacctca acctcccggc agacgtctga cggctgcctg aatctgtcga 180  
tcggtggcca gatcgagcta tagcacgcta acctcatagc taaactgtac atagaagaag 240  
aagctgcgcc agaaggaggg ggggtggggtt ctgaacggcc acacttacca ggatactgag 300  
gcagaagaag aacggagggtt atctttgtgt cataagttgt cgacgttttag ggttttagagc 360  
cgtcgtgatc gtatcctccg gcctgaacaa cgttgtttta tgttcagagc ggaggaccc 419

<210> 10181

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D12

<400> 10181

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caagattgca ctcttcaatt tcagtgcata ttgcttatga ttaccttctt gatgaatcta 120  
ctaactcatg gggacaaaat ctttctttgt tgtatgaccg cgtcctgaag taccagAAC 180  
gtgtccagaa tctgtacttc acctacctgt ttgttcttcg ggccgtgaca aaagcagcaa 240  
attatcttga gcaggctgag tacaataccg gcaatcctga agacgacttg aaaacagaat 300  
ctcttgtgaa gcagttgctt tacaattcca agttaagatc tgcattgtcca ttgccttttg 360  
atgaagccaa actttggcaa ggcgaaaatg gtctgagct aaagcaagag attcagaagc 420  
aatTT 425

<210> 10182  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-D4  
<400> 10182

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caagcccggtg ccaacttgaa ggaacctgcc gcgttggcag caccocgac ctgggccagt 120  
gcgtcgagtt cctgaggcat cagtgcagcc cggacggcaa cgcctaattg ttggcttaat 180  
ggccggccgt gccggagcaa tgtttgcagg aacttaagcc agttgagccc gcagcacccg 240  
taccaggcga tcttcggctt ggtcctccag tccatcctgc agcagcagcg taaagcgggc 300  
aggctctcgtg gctgttggcg gcgcacatag cgcagcaact gacagcgatt tgcgggctgc 360  
atcattcgac tctatgcgt tactcctgtg tcggcgggtg tctccactgt agaaactatg 420  
tgctgttgta ta 432

<210> 10183  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-010-Q1-K1-D5  
<400> 10183

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gcttctgaga caactaactc ccaacaacgc aacagtaacg ctaaaagctg tcagtttcca 120

ggatgtgtga aaggagcaag aggggcatca gggcggttgca tagcacatgg cggcggtagg 180  
 cgttgccaga aacctggttg tgagaagggc gctgaaggga ggacaatcta ttgcaaggcc 240  
 catggtggag gcaggagatg tcaatttctc ggggtgtacaa agagtgtga agggcgcaca 300  
 gaccactgca tagctcatgg tgggtggccgc cgctgcagcc atgaaggttg ctcccagact 360  
 gctcgtggaa aatctggcct gtgtatcaag catggtgggtg gcaaaagggtg tcagaaggag 420  
 aactg 425

<210> 10184  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-D6  
 <400> 10184

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 cttgtgagac aactaactcc caacaacgca acagtaacgc taaaagctgt cagtttccag 120  
 gatgtgtgaa aggagcaaga ggggcatcag ggcggtgcat agcacatggc ggcggtaggc 180  
 gttgccagaa acctggttgt gagaagggcg ctgaagggtg gacaatctat tgcaaggccc 240  
 atggtggagg caggagatgt caatttctcg ggtgtacaaa gagtgtgaa gggcgcacag 300  
 accactgcat agctcatggt ggtggccgctc gttgcagcca tgaagggtgc ttccgagctg 360  
 ctctgtggaaa atttggccct gtgtatcaag catggtgggtg gcaaaagggtt gtctgatgga 420  
 gaac 424

<210> 10185  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-010-Q1-K1-D7  
 <400> 10185

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 cttacaatga ggctgttttt gtgcttgatc aggattcgtg tctatccagt gatgtttgat 120  
 agtttcatca ggcaggagca tagaatggtg aatcttttcg attgaggact gtgaatccat 180

ggatgttcag tcattgtttg tgtagacatt gtggtgagct tggaggccac cccacctact 240  
 caataaagca gtgctgggag taatagagca ctgatgtact gagggcgcct aggttaaaca 300  
 cgaggaaccg gttatatttg tttcgcggtc gaacacaatc aattttttgt tggtgacttg 360  
 tttcttatga ttctacatat ttttaaggttt atgtgctgtc ctaaccgtgg tctttgatac 420  
 cggttatattt ggat 434

<210> 10186  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D8

<400> 10186  
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 caccgtttca tctaccgcct ccgttctata tgccgcctcc gttctatctg ccgccgcagc 180  
 agcagccgca gccatggcaa taccctactc aaccacgcga gctaagcccg tgccagcagt 240  
 tcggatcctg cggcgctggc agcgtcggca gcccgttcct gggccagtgc gtcgagttcc 300  
 tgaggcacca gtgcagcccg gcggcgacgc cctacggctc gccacagtgc caggcgctgc 360  
 agcagcagtg ctgccaccag atcaggcagg tggagccgct gcaccggtac caggcgacat 420  
 acggtgtggt cctg 434

<210> 10187  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D9

<400> 10187  
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 aaggttgata tcgatattgc aacacatata gttgttgaag acgacggggc aaaaagaagc 120  
 atgctttaca tagagacagc cgatcggcct ggcctacttc ttgagataat caagatcatc 180  
 gcggacacaa atattgatgt ggagtcagct gagatcgata ctgaaagttt ggttgc 236

<210> 10188  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C3

<400> 10188

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accttcctta aatggcttaa tattggccgg taccacagct tatggcctaa aaaccaggtt 180  
taatctgtac attcttactg tgacaagcca ccgtataag ccagaaacga cactgatgga 240  
tggaagccta agcgcctagc atttgggggt caagctgcgc cgcactctgcg aattgattgg 300  
gctcatcac agcatgggca atcttttcgt gccctgaca cccatgaatt ttggttgtca 360  
gatgtcactt ttgatagtat aaattcgtca cgcactgttg tagacctatg ggcatt 416

<210> 10189  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B10

<400> 10189

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gcagcgagtg ggagacaagg ggaaatgggg aaggagcgc aaggagcga tgcggcggcg 120  
gcgggcggcg aggtggagga gaacatggcg gcgtggctgg ttgccaagaa caccctcaag 180  
atcatgccct tcaagctccc gccgctcggc cttatgatg tccgctgcg catgaaagca 240  
gtggggatth gcggcagcga tgtgcactac ctcagggaga tgcgcatcgc gcacttcgtg 300  
gtgaaggagc cgatggtgat cgggcacgag tgcgcggtcg tggtcgagga ggtggcgcc 360  
ggcgtgacgc acctgtcgt gggcgaccgc gtggcgctgg agccggcgt cagctgctgg 420

<210> 10190  
<211> 419  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-010-Q1-K1-B11

<400> 10190

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ttgggttggtg aggatgctct tgttcattctg cttaactatg tttggcccaa catatttgag 180  
acatctcccc acgttataaa tgctgtcatg gaggcaattg aggggatgag ggtcgcacta 240  
ggtgcggctg tgattttaaa ttattgcctg caaggctctt tccatccagc aaggaaagta 300  
cgagaagtgt attggaagat atacaactct ttgtacatcg gcgcgcagga tgcacttggt 360  
gcttcttatc ctgccctgga agacgatggg gataacatct ttagtcgtcc agagttggc 419

<210> 10191

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B2

<400> 10191

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tcatccccctc ttatgccac atttcgttcc tttcacaccg gagaccggag agcagagacg 120  
tgcacagcag aacgcggaag caagaggagg cgatcgacta ctcgaccaga cctctccgtt 180  
cttgtctccg atggcggctc gcgtactagc ggccctagct ctgcacctcg cctctgctcg 240  
cctaccgcg cccacgcggg cgtccaacga cgagggggac gcgctctacg cgctgcggca 300  
gcggtgtcg gacccaacg gcgtgctgca gagctgggat cccacgctcg tcacctctg 360  
cacttggatc cacatcttct gcgaccaggt cggctgcgtc gtccgcctgg acttgggcaa 420  
ctc 423

<210> 10192

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-010-Q1-K1-B3

<400> 10192

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ccccctctcc gccgtcgccg gaggcgaagc aagtggggac cacagaagca ttagctgggt 120

gaaccactc aaagggggca gggaattgtg tgctagtgtg aatggctgct acaaagcttc 180

aggccctttg gaaccacccg gctggcccca aaaccattca tttctgggcg ccaacattca 240

aatggggcat cagcattgcc aacatagccg actntgctaa accacctgaa aagatatctt 300

accctcagca agttgctgtt gcatgcactg gactcatttg gt 342

<210> 10193  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B4

<400> 10193

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gtacccccgc cctctccggc ggcccgcgta accaccgcgc cagatggcga cggcggccac 120

ggcgtccgcg acggcggcga cccgcttcac gctcctagcg ggccgcggcc tccgcagccg 180

catcaccgcg ctccccaccg ccgtgcggtt ccagcgccag cggggggtca ccaccaccgc 240

gctcctgaag accgcccacc tgcagcccaa ggagcagggc aagcccgaga cgctcgacta 300

ccgcgtgttc ctgcgcgacg gcgggtggccg gaaggtgtcg ccgtggcacg acgtcccgtt 360

gcgcgccggg gacgggggtg tccacttcgt cgtcgagata cccaaggaga gcagcgccaa 420

gatggaggtc gcc 433

<210> 10194  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B5

<400> 10194

ggcaagtggg aggcatcacc agaggatgat ataagacatt ggtccaagtt cccatcattt 60

atgcctcttc tgagtcagat tgagacagac ggtggcaagt ctctggactt tagcaactat 120

ccttacatat ttatgagatg gaaagaacag tattttgtca atgttgagtg tgactgtggg 180  
 ttaaccatcg ctgggttctta ctacgtctgc ttttcttgta gcgatggctc catcagtgga 240  
 ttttattatg atccaaatag cagtccattt cagaagctcg aattgaagtg taccaatgag 300  
 aaaagttctg gattcacctt ttcacacctat gagctgcagt gacagggcca gatgcatata 360  
 gtgtgtactg aactcatact cgcctaatac tgctgtattg aaagaaacga gtgggtgggtt 420  
 atgcaacact 430

<210> 10195  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-010-Q1-K1-B6

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 tcatgcgcca cgctcgccgag acgctcgagg tcgacctoga gccgctctac cagcggattg 120  
 gctggccgct ctaccgcaag tacggtcacg ccttcgaggc cttcaagctc atcggtgcgg 180  
 accctgacgc tatectcgac gtactcacct atgaggaaaa ggaggtcggc ccagatggcc 240  
 aggaggtggc taaggtggtg cctgctgtca cccctgaggt taaggattca ctggtgaaga 300  
 acataaggag gaggatgaca ccgcagccac tcaagatccg tgctgatata gagatgaagt 360  
 gcttncagtt tgatggagtg ctccatatta agcaagctat gaagaaagct g 411

<210> 10196  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B7

<400> 10196  
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 actagagcag ttcagcaagt gatgatggaa ggaaacaccc aaacattacc cagggggcca 120  
 ggacacaaac aaaggttttt caacaccaca acctggctcg acaggcaaac agattcctgc 180  
 gagcagagca gtatttgcac atgcaattga agtcatgacg ctttaagagc atgtcgcaaa 240

cggttacttg gggcataagc attgccaaca tagccg

276

<210> 10197

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B8

<400> 10197

gcggcgatga ttgagtaata atgtgtcacg catcaccatg ggtggcagtg tcagtgtgag 60

caatgacctg aatgaacaat tgaaatgaaa agaaaaaagt attgttcc 108

<210> 10198

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B9

<400> 10198

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tcagccagct acctgttgcc tacccccagc aatttcttcc attcaaccaa ctggcagcat 120

tgaactctcc tgcttattta cagcagcaac aactactacc attcagccag ctagctggtg 180

tgagccctgc taccttcttg acacaaccac agttgttgcc gttctaccag cacgctgcgc 240

ctaacgctgg caccctctta caactgcaac aattgctgcc attcaaccaa cttgctttga 300

caaacctagc agtgttctac caacaacca tcattggtgg tgccctcttt tagatttctt 360

atgagttata gttcaataat aaagtttttt gtctgatgtt tgtggcttcc c 411

<210> 10199

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C1

<400> 10199

gactactaca gtgcccgcgc ccgctgcgtc caccaccacc tcctttccga actcctccgc 60

gtacccccgc cctctccggc ggaccgcagt aaccacccgc gcagatggcg acggcggcca 120

cggcgtccgc tgacagcggc gacccgcttg acgctcctag cggacgccgg cctccgcagc 180  
 cgcatcaccg gcctgcccac cggcgtgcgg ttccagcgcc agcggggggt caccaccacc 240  
 gcgctcctga agaccgatga cctacagtcc aaggagcagg gcaagcccga gacgctagac 300  
 tacacgcgtg atcatggtcg acggcggagc ccggaagggtg tc 342

<210> 10200

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C10

<400> 10200

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 ccccgcggtt cgcgggatca aggagccaga gagcgggacg cagcgagcgt tccgccggag 120  
 atcgagaccg tagctagggg ttgaggcgcc gggctgcggt ggacgagatg tcgacgccgg 180  
 cgaggaagcg gctgatgcgg gacttcaggc gcctgcagca ggacccgccc gccgggatca 240  
 gcggcgcgcc gcacgacaac aacatcatgc tctggaacgc cgtcatattc gggccggatg 300  
 atacgccgtg ggacgggtggc acgttcaagc ttaccttgca gtttacagaa gattacccaa 360  
 acaagccacc aactgttcga tttgtctcta ggatgtttca tccaaatata tatgctgatg 420  
 gaagc 425

<210> 10201

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C11

<400> 10201

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 cccgtgccag cagttcggat cctgcggcgt cggcagcgtc ggcagcccggt tcctggggcca 120  
 gtgcgtcgag ttctgaggc accagtgcag cccggcggcg acgcctacg gctcgccaca 180  
 gtgccaggcg ctgcagcagc agtgctgcca ccagatcagg caggtggagc cgctgcaccg 240  
 gtaccaggcg acatacgggt tggctctgca gtccttctg cagcagcagc cgcagggcga 300

gctcgcgcg ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca 360  
gctgcagcag ccaggtccct gcccttgcaa cgcagctgcc ggcggtgtct actactga 418

<210> 10202  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C12

<400> 10202

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gtcgggaagtt ttctcaacag cagctgatgg ccagactagt gtggagatca atgttctcca 120  
aggagaaaaga gagtttgtga gagacaacaa gtctattggg agcttccggc ttgatggaat 180  
ccctcctgcc ctacgtgggtg taccacagat cgaagtcaag tttgatattg atgctaacgg 240  
tattctctct gtcagtgtctg tggacaaggg tacagggaag aagcaggata tcacaattac 300  
tgggtgctagc actctgccaa aggacgaggt ggagaggatg gttggcgaat ctgagaagtt 360  
tgcaaaggag gacaaggaga agcgagacgc cattgacacc aagaaccaat ccgagtcggg 420  
catctac 427

<210> 10203  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-C2

<400> 10203

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cgccaccggc actggagctg gaggggaaggc gaagaaggga gcggccggtc gcaaggccgg 120  
cgggccgagg aagaagtcgg tgacgaggtc cgtgaaggcc gggctccagt tccccgtcgg 180  
ccgcatcggg cgctacctca agaagggccg ctacgcgcag cgcgtcggca gcggtgcccc 240  
cgtctacctc gcggccgtcc tggagtacct cgccgctgag gtcttgagc tcgccggcaa 300  
cgctgccaag gacaacaaga agacgcgcac cgtcccgcgc cactgtctgc tggcgatccg 360  
caacgacgag gagctcggga agctgctgac cggcgtgacc atcgcccacg gcggcgtgtt 420

gcccacatc aa

432

<210> 10204

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-B1

<400> 10204

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gccaggttgg gcatggcaac cttctcgagg ttgacgctga ggagggtgcc gttcatcttg 120  
acgaaccgca agagctcgtc gaaggagccg aagagcccaa gccagaattc aaaattgcgg 180  
aggaacgagg ggctgcggaa ccgatctggt gcggcgatga ctacctggcc gacctggtgg 240  
cttgacaggg cgaggctgct gagctcggcg acgcggagag acagggtctt cccacgctcg 300  
gtgcaaagga gtctgggacg attggcgatg acggttgatga ggtcggtgcc ggagatgtcg 360  
aggcccgcga ggaaggcgag gacgacgtcg ggcttcgagg gagacctgag gtcgaggatc 420  
cttttgattt tggatgcctt gaggacct 448

<210> 10205

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H2

<400> 10205

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tattgatgct agcaccatcc ctagagttgt cacttttgac aagaaccctg acaaccaccc 120  
atacctcatg aaattcttcc aaagctcagc cccaaggct atgctgtttt tgaacttctc 180  
caccggacct ttgattctt tcaagtctgc ctactctgct gccgcggagg aattcaagga 240  
caaggaaatc aagttcctta ttggtgacat cgaatccagc cagggtgcct tccagtactt 300  
tggcctgaaa gaggaccaga cacccttat cctcatccag gatggtgact ccaagaagtt 360  
cttgaagggt caggttgagg ctgaccagat cgctcgcttg ttgaaggagt actttgacgg 420  
caaattga 428

<210> 10206  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-H4  
  
 <400> 10206

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 gtctagcagc agccaccgcc gcctcctcct cgagccgcc gtctgtctct ccgtgctcgc 120  
 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360  
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgn 420  
 caccctcgtc ac 432

<210> 10207  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-H5  
  
 <400> 10207

atgtgaaccc ttggagcgta atcattgcga tatcatactt gatacattat gtaaaaaaac 60  
 aatggaaaaa ctactacaac ccttcacgac atgcagagat gtgttaaaaa caacacacaa 120  
 cacacttgag tccccaaaga ctatgaactt ggagatcttt ggaattcatt ctatgaatgg 180  
 agcgctgtg gcgttggtac ttcagtgtgc atcgctccgg gtgagacagt ggttcaatac 240  
 ttagtgccat atctattagc aattcaattt gtacaccaac acgagaaatg ctctgtttc 300  
 acatagcatg atttatgatg gaagattcga tcggaataac cattatagtg tttggatgta 360  
 cactcatgga tttcaagctc tattacgcat gcacactatt gtagttgaat ggaatgggga 420  
 g 421



<210> 10208  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H6

<400> 10208

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ctccgggggtt cgggttcgtg ggtgagcggg tcgagatggc ggcgtcggat gttgagtacc 120  
gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctacac aacgccttca 180  
gcacctacgg cgaggctcctc tagtccaaga tcattctcga tcgggagacg cataggtccc 240  
gcggcttcgg cttcgtcacc ttctccacgg atgaggcgat tcggaacgcc atcgagggca 300  
tgaacggcaa ggagcttgac ggtcgcaaca tcaccgtcaa cgaggcccat tcccgtggc 359

<210> 10209  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H7

<400> 10209

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ctaccaagat attatccctc tttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt 120  
tcattattcc acaatgctca cttgctccta gtgccattat tccacagtcc ctccctccag 180  
ttacttcaat gggcttcgaa caccagctg tgcaagccta caggctacaa caagcgcttg 240  
cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300  
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcactg agccaactag 360  
ctgtggtgaa cctgtcgcc tacttgcaac agcagttgct tgcattccaa ccacttgctc 420  
tggcaaacat agttgcatac caacaacaa 449

<210> 10210  
<211> 361  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-009-Q1-K1-H9

<400> 10210

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cgccagggtgc tgacgccttc gccgatcact tcgccggcga tagcactcac caggaatggg 120  
cctgtggaca ttgctggagg gttttttgct tcttgcaa at gcgttagcga tattgaacga 180  
agaccgcttc cttgggtccaa ggggatggag catgtctgaa gtatcaggaa acgggcaa ac 240  
caagtcgttc aagggccaga tcgtggggct tatctacgct acacagtttc tgcggatgcc 300  
cttaattgct ctcaacgttc tcatcatcng tgtcaaattg gtgtctggct gagcctgatg 360  
a 361

<210> 10211  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A1

<400> 10211

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gctccttggt ctttctgcaa gtgtgctac cgcaaccatt ttcccacaat gctcacaagc 120  
tcctatagct tcctttcttc ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180  
cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240  
acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcattttgt 300  
tggcactaaa catcaaggca caacaactac aacaacttgg tgctaagaaa ccttgctgcc 360  
tactttaagc aacagcaagt ttcttccatt caaccaactg gctgcattga actctgctgc 420  
ttatttgcaa caacaacta 439

<210> 10212  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A2

<400> 10212

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 ggcgtgattg gagatatgaa caaaatgaaa atcgatggcg acaataactt tggggagcag 120  
 aagagccatc accgatgcag ggcgaagaag catgatgtga ggattttgga ttccttgagt 180  
 tgaagagctt cataaggcta aaagtgggtga agcgtacatg tggtgggtgt agtggttcctt 240  
 cactagcagc agctatztat cgatagcatg tctttgttgc agcatccact gatagagcag 300  
 acaactagtt actagtgttt cgacattttg tatggcacag atgtttcata atagtccctt 360  
 agtatctggg cgagaatttc catgagttta tctatgacgg cttcaaagtg tagcttatgt 420  
 gctaagaaca tg 432

<210> 10213  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-010-Q1-K1-A3  
  
 <400> 10213

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 gaatccgatc cacgcatctt cgctcagact tgggtggtgta cgagcagcca tagatgtgca 120  
 gacatcccta ttggaagaag atccgaacaa gaattatcaa gaagacaaaa ggagtgttga 180  
 aacaggagtg catcaacttt catgagataa tgatccagtg gacgtgccaa tgacaaggtc 240  
 atagaagaag ctatgcttga ggaagctatg agtgactgaa ggatttcatt ttccgtacta 300  
 tcatgtttca actttcattg gccagtcac aaagaagtat atgatgtgtt tggatttggg 360  
 gttc 364

<210> 10214  
 <211> 69  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-A5  
  
 <400> 10214

ccttgttcgg tggatttacg gtctgtataa tatttatgca cgcttgcaact ttatccatgg 60

tatttgtat

69

<210> 10215

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A6

<400> 10215

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taaatgaaaa agtgggctgca tactacagca acagacctgc tgccttttcta gaactaacta 120

gctaccgtca ggctgaggca cattgcacaa gtgccatcga actcgattcc aagagcgtga 180

gaagcttatt tacggagagg cactgcaagg gagatgctag gttattataa ggaggccgca 240

gatgatttca accacgcgct tgttctataa ccaatgaaca agacctgtgg tgtcgccatc 300

aacaggttcc agaagctgtg tgcttgaata tgaatctgca tgaagatatg ataaccatga 360

tattttgtgc acacacaaga tgtgctgtgc acagatgcgg gattgaagta cctgactaca 420

accgacggat gct 433

<210> 10216

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A7

<400> 10216

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gcaaccttct cgaggttgac gctgaggagg ttgccgttca tcttgacgaa ccgcaagagc 120

tcgtcgaagg agccgaagag cccaagccag aattcaaaat tgcggaggaa cgaggggctg 180

cggaaccgga tctggggcgc gatgactacc tggccgacct ggtggcttga caggccgagg 240

ctgcggagct cggcgacgcg gagagacagg gtcttcccca cgtcggtgca aaggagtctg 300

ggatcattgg cgatgacggt tgtgaggteg gtgccggaga tgtcgaggcc cgccaggaag 360

gcgaggacga cgtcgggctt cgaggagac ctgaagtoga ggatcctttt gattttggat 420

gccttgagga cct 433

<210> 10217  
<211> 159  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A8

<400> 10217

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atggcggtg cactcatgta ccctcagacg ttgaagtgtt ccagcagccc taaatgctca 120  
gacatcctca tcgtaagaag ctctaaca gatttatta 159

<210> 10218  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H11

<400> 10218

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catcctacga cagcggcagg acggcggacg acatcgtcga cttcatcaag aagagcaagg 120  
agaccgcagg cgccgccacc accaccacca cccaggcgcc accggcatcc gagaaggcag 180  
ccgccgccga gcccgtaag gacgagctgt gagcatccaa ggtgtggacg gctgtggctg 240  
cgtaagcatg ggaggaaaac ctggcgctaa cgtgcctcca acgcctagtt tttgcgggac 300  
cagagggaga gagagagagg gacggagtta gagagagagg ggatctgcga cgtgttttgc 360  
tctgcggcgg catgtctgtg tatccattg aagttatgta cacaattaca ccgcggtcgg 420  
t 421

<210> 10219  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F8

<400> 10219

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 gccggggccac cgggtggaag cagaagacgt ggcgcaagaa gcgaaagtat gagcttggcc 180  
 gccagcctgc taacaccaaa ctgtctagca ataagacagt gaggaggggc cgtgtccgtg 240  
 gaggaacgt gaagtggagg gctctccgat tggatacagg taactactcg tggggaagtg 300  
 aggctcttac ccgcaagacc cgcctcctgg atgtgggtcta taatgcatca aacaatgagc 360  
 ttgtgaggac tcagactctt gtgaagagcg ccattgtaca agttgatgct gctccattca 420  
 agcagtggta cctcactcac tatggag 447

<210> 10220  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-F9  
  
 <400> 10220

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 gctattttga ctaccgtatt ggttgctgaa agcctggggg gtataagggtg gtcttggact 180  
 ccgacgctgg actattttgt ggatttagca ggatccatca cgcagccgag cacttcaccg 240  
 ncgactgttc gcatgataat aggccatatt cattctcggt ttatacacca agcagaacat 300  
 gtgtcgtcta tgctccagtg gagtgataac cgggtactcg ttgctgctcg gcatgtgtgg 360  
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 aat 423

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 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-G1  
  
 <400> 10221

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accaagattg ctgagctcct gaggtaccac tcgaccaaga gcggggatga gctgaccagc 180  
 ctcaacgatt atgtgaccag catgaacgag ggccagaacg acatcttcta catcactggc 240  
 gagagcaaga aggctgtgga gaactacccg ttccttgaga aactgaagaa agagggctat 300  
 gaggtgctgt tcatgggtga tgccattgac gagtattcta ttggacagct gaaggagttt 360  
 gagggcaaga agctcgtctc tgccaccaag gagggcctga agctggacga gagtgaggat 420  
 gagaagaag 429

<210> 10222

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G12

<400> 10222

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 tgggcttctt tgccaatttc ctgggcatct acatctgagc ctaggttatt gcgtaccact 180  
 ttgagaaggc ataaccgaga tacgcaagta actggtgtcc tttagtgcga agatccatt 240  
 atttgcaagc cgaattacgg ctctccagag agcttgagct agagagatgg cttgaaacgt 300  
 tcattgcgta ctatggagcc taggcatgca actgctggca taataggcat gtccaaggct 360  
 gaatacgctg aattagagaa tactggagaa ttcaggaacc gtgttaagta ctgcagatgg 420  
 gcggcagtat ctctactaa tgtatgcatg cc 452

<210> 10223

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G4

<400> 10223

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 aggaggagcc cgcgccgagc tgcggcgacc gccgtcgtgc gtagaggact acatgcatgc 180

aagagcagca ggacgtcgtc gtcgtccccg ctccctcgga tcttctgaat aaaaaaaca 240  
gcttgcatgc gtgctcaatt gttgtgtgtc gt 272

<210> 10224  
<211> 449  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-G5  
  
<400> 10224

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cttgtccatg ttttctttgc acaacgttcc acgacaaagg tgccagggtg aactgatgtt 120  
caactgaaac caaggccaat tagaaaagtt gctgttattg gtgggtggtct gatgggctct 180  
ggaattgcta catcacttct tgtagcaat atttctgttg tgctcaagga agtgaaccct 240  
cagtttctgc aaaggggaga gaaaatgata gcaggtaatc ttgagggcct gataaaaaaa 300  
ggttcactaa caaaggatag gatgcacaag gccatgtcgc ttttcaaggg cgctttggat 360  
tattcagatt tcaaggatgt tgatatggtt attgaggctg ttattgagaa gattcctttg 420  
aagcaatoga tattttctga cattgaaaa 449

<210> 10225  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-G6  
  
<400> 10225

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gggcttcagt gctgaaattc aagaactgat tcgtatgtgt cctaaaagga ggcaactat 180  
gcttttctct gctacaatga cagaagaaat tgatgaactt gtaaagcttt cactaaacaa 240  
gcctgtacgc cttgaagctg atccttctct gaaacggcct gcaacattga ctgaagaggt 300  
tgtaggata cgacgagcac gtgagtcaaa tcaagaagct gttcttcttg cactcttgtt 360  
gaagactttc aagcgaagtg ttatcatttt tagtgggaca aagcaatctg cacacaggtt 420



aaaaataata tttggtctct ctg

443

<210> 10226

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G7

<400> 10226

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gtccatggag gagatggccg cggcgctgcg gctggacgcg cggcgccgcg gcgacagggc 120  
gcgcctccac gagctgctgc tctgctacct cgcgctcaac gacaggcgcg gcgacaagta 180  
cgtcgtcagc gccttcaccg acctcctcct ccgcctcacc gccgccgccg cagccgcca 240  
cctcagcgac gacgaccggc acgagtaacc gccttttttt tcacgggtcat ggccgtgcgt 300  
acggacagaa tttcgggtac ggcgaggct caaaaatcct cgacagcatg agcgagcgtt 360  
ccaagatcac ccagagctgt acatactgcc tccagctcca gatcgagctc cgtagctaga 420  
aatctgttcg tgtgcgcagc attttg 446

<210> 10227

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G8

<400> 10227

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gctctcgtg cgagcgccac ctgcacgcac acaagcggcg gctgcggctg ccagccaccg 120  
ccgcgcgttc atctaccgcc gccggtgcat ctgccacctc cggttcacct gccacctccg 180  
gtgcatctgc caccgccggt ccacctgccg gcgcgcgttc acctgccacc gccggtccat 240  
gtgccgcgcg cggttcatct gccggcgaca ccatgccact acctactca accgccccg 300  
cctcagctc atccccagcc acacccatgc ccgtgccaac agccgcaccc aagcccgctg 360  
cagctgcagg gaacctgcgg cgttggcagc accccgatcc tgggccagtg cgtcgagttt 420  
ctgaggcatc agtgcaaccc ga 442

<210> 10228  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-H1

<400> 10228

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acagtgtctt ggtgagcggg atcactgggt gctcttctcc tgcagtgttc aatgctgcac 120  
ggctcatgtc taccaagcta tttattgggt gtcttgactg ggggtgtgat gacgtgaaac 180  
taagagaagc atttagcagc tttggagagg ttactgaagc gaggggtgat acagacaggg 240  
agactgggag gtcaagaggg tttggctttg tgaactactc cgacagtgat gctgccaaagg 300  
aagctatttc tgcaatggat ggcaaggaaa ttgatgggcg gcaggtacgt gtcaacatgg 360  
ctaattgagag acctgctggg aaccgtgggt gtggcggcta tgggtggcggc ggctatggag 420  
gtggtggcta 430

<210> 10229  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E2

<400> 10229

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gatttatgca aaagttgggg atgctgctat ggtatacact ggggattaca atatgacacc 180  
agatagacat cttggggccg cacagattga tcgtctgaag ttggatgtat tgataacaga 240  
gtccacatat gctaaatcta tacgtgactc aaagcctgtc cgagagaggg agtttttaaa 300  
agcggtagat aaatgtgttt ctggtggagg taaagttcta attccaacgt ttgctctggg 360  
aagagctcac gaactatgta tggtactgga tgactattgg gagaggatgg gcttgaaagt 420  
tcctatttat ttttcaactg gtttaacca 449

<210> 10230  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E3

<400> 10230

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atgcttgcaa atagacagcc taccacgctc agtctgcgcg gtcctacca attagactcg 120  
agacgctaaa aaaaggtgtg tgagatccac tggggcacia gtttttgaaa agaaatgtct 180  
cacgggggttt gagctggccg attgctgcaa cagttcatga acaagtctgc atgaaaggat 240  
gcctttcacc tttgggtccg ggttaccct tccatgtcct tcgtatcaac aagatgcttt 300  
cgtgtgctgg ggctgatagg ctccagactg gaatgagggg tgcctttggc aagcettaag 360  
gcacctgttc taaggtggac aattggcagg tactcc 396

<210> 10231  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E4

<400> 10231

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gaccggttcc tcggagcacg atgaagtttg ctgctgccta cctgcttgct gtactcgctg 120  
ggaacgccag cccctgcggg gacgatttga ctgccattct ggagtcagtt ggctgtgaag 180  
ctgacaatga aaagatggaa ctctgctgt cccaactgag cggtaaggac atgaccgagc 240  
ttattgccgc gggcagggag aagtttgctt cagtcccatg tggtaggggc ggtgtcgctg 300  
ttgcggcagc tgcacctgct gctggcggag ctggtcctgc agctgatgca gagaaagaag 360  
agaatgtgga agagaaagaa taaagcgatg atgatatggg cttcagcctc ttccactagg 420  
ctgaacagcc atcacagtat tgtttt 446

<210> 10232  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E6

<400> 10232

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taccgatcat tagcagctat accatttggc acaatggttg tcatgtttat tctttgggct 120  
ttcatctcct tcccgttggg tctattgggg actgtagttg gtagaaattg gagtgggtgc 180  
cccaacaacc cgtgtcgtgt gaaaacgatc ccgcgccccaa ttcctgaaaa gaagtgggtac 240  
cttacacctt ctgttatttc actgatgggt ggacttctcc ccttcggcag catcttcatt 300  
gagatgtact tcgtattcac ttccttctgg aactacaagg tgtactacgt ctatggtttc 360  
atgttgctgg tgtttgctcat cctcataata gtcaccatat gtgtcactat tgtgggtact 420  
tatttcttgg tgaatgctga aaact 445

<210> 10233

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E7

<400> 10233

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caccagatth tggtggccgg aagttgaaaa aagcccaaac aaacagggcc acagtatgga 120  
aatcattagc tctgtggact gtggtcagga aaaagaacag ccaacaaata aacgtgcaac 180  
gtcagaaagt actacagaat caagcacata agcatccagg gagaacatta gaagggacaa 240  
gctgaacgag agattcttgg aattgggtgc cattttggag ccagggaaaa ctcttaaaat 300  
ggacaatata gctatattga gtgatgctat tcgtgtagta cgtgaattgc gtagtgaatc 360  
aaataagctc aaggattcaa atgagaatct tcaagagatg attaattgagc tctaagtcta 420  
tactatttca t 431

<210> 10234

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E9

<400> 10234

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tttggtgaaa atgcgaccag agtacaggat ggtggcagag tcgcatctgg acatacacga 180  
ctggaaccca ttgcagaaga catcggttcc ttcaagcaag ctctgcaga tgccaatgca 240  
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<210> 10235

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F1

<400> 10235

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gcaggtgcac cccgacatcg gcatctcgta caaggccatg tccatcatga actccttcat 180  
caacgacatc ttcgagaagc tcgcggccga gtccgccaaag ctggcgcgct acaacaagaa 240  
gccaccatc acctcccgcg agatccagac ctcggtgcgc ctgcctctcc cggcgagct 300  
cgacaagcac gccgtctccg atggcactaa ggccgttacg aagtccacct cgtcttagga 360  
tccttgtaat ggatcatgtg gcgtcagcag taggcgtggc tcaatttatg tgatactgct 420  
agcgatggat gat 433

<210> 10236

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F11

<400> 10236

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gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc ctacccccag 180

caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 240  
 caactactac cattcagcca gctagctggt gtgagccctg ctaccttctt gatacaacca 300  
 cagttgttgc ogttctacca gcacgctgcg cctaacgctg gcaccctctt acaactgcaa 360  
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<210> 10237

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F3

<400> 10237

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 ggccattggt gaacaagtac gcgatggcag tactgttcgt gtgtatttag tccctagttt 180  
 tcagtttgct cagatatatg ttgctggagt acaggcccta tcaatgggga gacgcccatc 240  
 tgcacctact gtaattgctg aaactgatga tactgctaata gacactaacg gtgaagattt 300  
 tgagggaaca cctgtccaac tgactacagc acaaagactt gttgcatctg cagcttctgc 360  
 tgaaatttca ccatataggt atggaagata agcctatgca ctttacatag gctatagttt 420  
 tcaacatata tttgcgta 438

<210> 10238

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F5

<400> 10238

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 aacggaccac ccacccacgt actacgagga catgcagcgt gccgtcttct gcctgtgccc 180  
 gctgggctgg gcccgtgga gcccctctt ggtggaggcg gtggtgttcg gctgcatccc 240  
 ggtgatcatc gccgacgaca tcgtccttcc cttcgcggac gcgatcccggt gggaggagat 300

cggtgtcttc gtggccgagg acgacgtccc gaggtggac accatcctga cgtccatacc 360  
gatggagggtg atcctccgga agcagaggct gctcgcgaat 400

<210> 10239  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E12

<400> 10239

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aagacgtggc gcaagaagcg aaagtatgag cttggccgcc agcctgctaa caccaaactg 180  
tctagcaata agacagttag gaggggtccgt gtccgtggag gcaacgtgaa gtggagggct 240  
ctccgattgg atacaggtaa ctactcgtgg ggaagtgagg ctcttaccgg caagaccggc 300  
atcctggatg tgggtctataa tgcatacaaac aatgagcttg tgaggactca gactcttctg 360  
aagagcgcca ttgtacaagt tgatgctgct ccattcaagc agtgggtacct cactcactat 420  
ggagtggaca 430

<210> 10240  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C7

<400> 10240

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gctggttctg gaaggaccaa atgggctctc ggctggttct ggaaggacca aatgaaaaaa 180  
aggggtgtgct gttcttgaac aggggacctg cctgaaattg gcttagaaca agcaatcaag 240  
tatctatcaa ctacactgtc attattgtgt gatcttgcaa atttgctctt gcgaaacatg 300  
gcaagttcat catttcttct gcatggagtt ggtgttgccc acccctttgt gctagttcct 360  
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acttcag

427

<210> 10241

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C8

<400> 10241

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gggtaaataa agatgtaaat agtgtatata tggatata 98

<210> 10242

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-C9

<400> 10242

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atcaatatatt acagctccag tcagattttt ccaaaacttc caggttccgt gcctcggctg 120

ctagtgcatt taagccaagc tctgtctatc aagccagcct aagtccgaga tctggcactt 180

ttaaagatgg ggtaccaagg gcttcatgtg caaggggtgt tgggagggac aagctgaagc 240

gtcgtgtgga atgggttaggc ccgttaactg ctccgcttga tacgaatcct ttgacaatca 300

accctgattc tgccagttag aagtgtgatg cagattgttc aaagaacaat gttagctcag 360

ttccgttgga cctgcctctt tcgtttaccc tgttgccctc tatttactcc cttggcactc 420

g 421

<210> 10243

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D1

<400> 10243



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 cgctcctcct ctttctgtac cgggtgctgca gatgtgaggc tgttgagatg gagagaacct 180  
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 taacaagtgg ttcagttctt gctatggatc tggaaa 396

<210> 10244  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-D10  
 <400> 10244

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 cgaggacaag acaacggggc agaagaacaa gatcacaatc accaacgaca agggccgtct 180  
 ctccaaggag gagatcgaga agatggttca ggacgctgag aagtacaagt ctgacgatga 240  
 ggagcacaag aagaagggtg aggccaaaga ctcgctggag aactactcct acaacatgcg 300  
 caacacgata aaggacgaga agattgcgtc caagctgccg gccgatgaca agaagaagat 360  
 cgaggacgcc atcgacgcgg ccatcagctg gctggacgcc aaccagctc 409

<210> 10245  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-D12  
 <400> 10245

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 cgctcggggc agcctccgga tctcaagaag tacatggaca agaagcttca gattaagctg 180

aatgcaaacc gtgttggttat tggcacactt cggggattcg accagttcat gaatctggtg 240  
atcgacaaca ctgtggaggt caatggaaat gacaagacag atattggaat ggtgggtatc 300  
aagggaaaca gtgttggtcat gatcgaggca cttgaaccag gtgccaaatc gcagtgaatc 360  
cttatttttc aactgatatt gtcgcaacct ggaaacc 397

<210> 10246

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D2

<400> 10246

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caaggggccc gggtagcca cgccgctgga ggccatggag aagggcccca gggagaagct 180  
cgtctacgtt acctgcgtct acaacggcac tggaaattaac aagccggatt accttgcgac 240  
ggtggatttg gatcccagct ctactacata ctcccagggtg atccacaggc tcccggttac 300  
ccacatcggc gacgagctgc atcactctgg ctggaactcc tgcagctcct gccacgggtga 360  
cccatctgcc aagcgccggt tgctgacct gccttccttg ctgtcaggcc ttgtgtat 418

<210> 10247

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D5

<400> 10247

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accataaacc tggaggttga gagctccgac accatcgaca acgtgaaggc aaagatccag 120  
gacaaagagg gcaccccca gctgcttgcc agcgaagatc agacgctgct ggtctggggg 180  
gatgccctct ttgtcctgga tctttgctgg caagcagctg gaggatggcc gcaccctagc 240  
agactacaac atccagaagg agagcactct ccacctgggtg ctccgcctcc gtggtggtca 300  
gtaagccatg gttcatttaa gctgctgctg tacctgggta tctgcgtcgt ctggtgcct 360

ctggtgtacc tctatatgga tgcgtcgtc taataaacat ctgtgggttg tgtgtcatga 420  
atcgtggttg ttgcttc 437

<210> 10248  
<211> 444  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-009-Q1-K1-D6

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gggccatcgt ctaaccactt ataactgtca ttttcaggat aatgcatttg cttataccct 180  
aacttgtaat caataccggc aacattgtca tccaggcggc atgaattagt gatccttcca 240  
gagaaacata ctatgcaaaa caaatgtcat attaataatc tagaaacaac tttgagatgg 300  
gttttatcta ttgatgagga acctgttaag aaatgtttga ttgcctgta gctgcaagga 360  
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cagcatatta ggaaacatat tatc 444

<210> 10249  
<211> 364  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-D7

<400> 10249  
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gtgcccgccga gaagaaggca gctgatgcag ataaggaaga taagaagtga agcggctgaa 180  
gatagtaccc tgatacgggtc tattcagtca ttagtgaatg ctactactta aagtgcttgt 240  
tctatgcata ctttgcggtta atggagatag atccctgaca tacattcagc tgtcctactg 300  
tttgatgccga tggactagta agctaactca aatttttaat gtgttatggg atttttgcgt 360  
atgt 364

<210> 10250  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D8

<400> 10250

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tgaggttctg aagcagaagg gtgtctacaa tccaagaag cttttcgggg ttaccaccct 180  
ggatgttgtc agggccaaca catttggtgc gcagaagaag aaccttaagc tcatcgatgt 240  
tgatgtccca gttgttggtg gccatgctgg aatcacaatt ctgccactgt tatcgaagac 300  
caggccatct gtcaccttca cagatgagga aactgaggag ctgacaaaga ggatacagaa 360  
tgccgggaca gaggtggtgg atgccaaagc tgggtgctggg tctgctaccc tgtccatggc 420  
ctatgccggt g 431

<210> 10251  
<211> 201  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E1

<400> 10251

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tttttatttt ttttttttta tttttttatt taatttattt attttttata tttattgttt 120  
tgttgagatt acaattattg catctgcaa acgagtactt caaacatata agggacaaat 180  
gattacaaaa gtaaactaga c 201

<210> 10252  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-E11

<400> 10252

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 gtccaagggg atggagcatg tctgaagtct caggaaacgg gcaaaccaag tcgttcaagg 180  
 gccagatcgt ggggcttata tacgctacgc agtttctgcg gatgccctta attgctctca 240  
 acgttctcat catcgttgtc aaattgggtg ctggctgagc ctgatgaatt ggtatctgtt 300  
 ccacctttat gtaagagctg agagatccca aatttaattg tactcaaggt tgctgtaaat 360  
 atgctgcttc tgttgattct aatgtggatt tctgttattg ttgtcgtaaa ttaatt 416

<210> 10253  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-C6  
 <400> 10253

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 tccgcagcct acctatccgc ttcccggagc ttgccgacg agaagcgccg ccgccgcggg 120  
 cagcctgtgc cctcttcttc accagttcct tcggcaagcg ccaccccgac ggctcctct 180  
 tcgtcgcca cctcgactgc tccgttcgcg caccgctcgc cgtcgtctgt tcttggaacc 240  
 gccaccaagg aggcgcgcgt gaaccgcgag tcccggagc tggtcgagc accaacgctc 300  
 gtcccgccgt ccgatgagtc cgcggagctg ccggacgacc cggagttcta ccaggacctt 360  
 ctccgcggcc tgcagctgcc agacatcagc ccgatggact tccgtgccgg gcttgacgct 420  
 ctggacgtct ccgatgcgcc cttcg 445

<210> 10254  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-B3  
 <400> 10254

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ctgggtgtgat gattcctgtt ctctatgtaa tggaaatgcgc aatttcaggg aagattctat 120  
 ggatcattgac gttggagaac caaccgactg ggtgaaaatc aatgtgcggc agactaaaga 180  
 ttgctttgaa gtctatgcac tagttcctgg acttctacgt gaggaggtgc atgttcaatc 240  
 aaatcctgct ggacgtcttg ttattacagg tgatccaaag cagcccgata atccctgtga 300  
 gatcactccg ttcaagaagg tggatcaactt gccatcaaga atcaatcctt accaaacatc 360  
 cgctgttgct acgcttcatg gtcagctg 388

<210> 10255  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-B6  
 <400> 10255

ccgtcgtcgt cgctcgttttc gttcccatcg tcacaagtcc agtaccaaac gtgccagcgc 60  
 gacgtcgaca ggcacaacgt ctgcgccatg gaggtgaggc acagcgtcga acggctggac 120  
 caggccgacg tctacagccc tggggctggg aggatcacac gcctcaccag ccacaagttc 180  
 cccgtcctca acctcgtaca gatgagcgcg gtgcgggtag acctgtacca ggacgccatc 240  
 atgtcgccgt tctggaactt caacgcccac agcgccatgt acggcatcag gggcagtgca 300  
 aggggtccagg tcgtcagcga caacgggacc acggtgttcg acgacgtgct ccgggcggtg 360  
 cagctgctca tcgtacccca gggctacctc gtcgccacc 399

<210> 10256  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-B7  
 <400> 10256

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 accaggccaa ggaggccatc ctggcgcgcc gcggcccggg cgccgacggc ctgccacgc 180  
 acgtggccgc cagcttcacc gccggcatcg tcgccgcgc cgcgtccaac cccgtcgacg 240

tcgtcaagac gaggatgatg aacatgaagg tggcgcccg cgcgcccccg ccctacgccg 300  
 gcgccgtcga ctgcgccctc aagaccgtca ggtcggaggg acccatggcg ctgtacaagg 360  
 ggttcatccc caccgtgatg cgccaggggc ccttcaccgt agtgcctctc atcacgc 417

<210> 10257

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B8

<400> 10257

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 ccgccagcct gctaacacca aactgtctag caataagaca gtgaggaggg tccgtgtccg 120  
 tggaggcaac gtgaagtgga gggctctccg attggatata ggtaactact cgtggggaag 180  
 tgaggctctt acccgcaaga cccgcctcct ggatgtgggc tataatgcat caaacaatga 240  
 gcttgtgagg actcagactc ttgtgaagag cgccattgta caagttgatg ctgctccatt 300  
 caagcagtgg tacctcactc actatggagt ggacatcggg aggaagaaga aggtgcctgt 360  
 tgctaagaag gatgcgactg agggacaaga ggggtgaggct atagct 406

<210> 10258

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B9

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 agtcctata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgtga 180  
 aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240  
 atcacccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcat 300  
 gttggcacia aacatcaagg cacaacaact acaacaactt gtgctaagaa accttgctgc 360  
 ctactctcag caacagcagt ttcttccatt caaccaactg gctgcattga actctgctgc 420

tta

423

<210> 10259

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C1

<400> 10259

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accgtatctg gcgggtccct gatcagcctc atgagagcca tgaacgagta aactggagct 120

taaaaaactg catggctctt ggagcattct acacgctggc gcaccgcaca cctgtagcgc 180

tgacacaagc catcgccgac ctgaacatga gatgaaccat gatgagcttt tgccatactt 240

ctagcgatac aagtgacttc gaactatata tccgaaattg ctagtgcaag ggcg 294

<210> 10260

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C10

<400> 10260

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gaatattttac agctccagtc agatctttcc aaaactttca ggttccgtgc ctccgctgct 120

agtgcatta aaccaagctc tgtctatcaa gccaggctaa gtccgagatc tggcacttat 180

acagatgggg taccaacggc tccatgtg 208

<210> 10261

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C12

<400> 10261

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tgggacttta tggacaaaga gcaggatgcc tgagtatfff gtgtgaggat gagatgcaag 120



cagttgctgt caagagccaa ctgcaacaga tgcgaagacc aatgtacagc aacccacctg 180  
 ttcattggtgc actggttggt tctataatcc tcagtgatcc agaattgaag agtttgtggt 240  
 taaaagaagt caagggatat gctgatcgta tcattggaat gcggaaggca ctttaaggaaa 300  
 atcttgaaaa gctaggttca cctttgtcat gggatcatat cactaatcag attggaatgt 360  
 tctgctacag tgggatgaca cctgaacaag ttgaccgttt aacaaatgaa taccacattt 420  
 acatgacc 428

<210> 10262  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-C4

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 cgcgggcggg gctgctgaca ggggtgttgaa ccagctgctt actgagatgg atggcatgaa 180  
 tgccaagaag acggttttca ttatcggcgc gactaacaga ccagatatca ttgaccctgc 240  
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 caggettcag atcttcaaag cctgcctcag gaagtctcct gtggctaagg acgttgactt 360  
 gcatgctctt gccaaagtaca cccagggttt cagcggagca gatatcaccg agatctgcca 420  
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<210> 10263  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gacgatgatg ggcgccggcg ggctgtaccc ctacgcggag tacctgaggc agccgcagtg 180

cagcccgtg gcggcggcgc cctactacgc cgggtgtggg cagccgagcg ccatgttcca 240  
gccgcttccg caacagtgt gccagcagca gatgaggatg atggacgtgc agtccgtcgc 300  
gcagcagctg cagatgatga tgcagcttga gcgtgccgct gccgncagca gcagcctgta 360  
cgagccagct ctgatg 376

<210> 10264  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H12

<400> 10264

ggccggaagc ggggcgacca gcagcggacg gcagcacgaa aggaaaccaa agccaaacaa 60  
cgaaaaaaga gaggaacaaa gcgggacaaa aggaacagga aacccaaccg gaaaaggggc 120  
cgcaaagaaa caccaaagcc aggcaaagag aagaagcgac gaaaaaagaa gaagaagaaa 180  
caacacaaaag aggccacgga gccaaaacca aaaagggagg aagccagaaa caacaggacc 240  
aagaaccaa acaggcaggg caccagaaac ccaaggagga agg 283

<210> 10265  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H9

<400> 10265

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tctggtgggt ctotttgagg acaccaacct ctgcgccatc cagccaaga gggtcaccat 180  
catgccaag gacatccagc tcgcgcgccg catcaggggc gagagggcct gattgctgct 240  
ctgtcttcct gttttctgtaa tgtctgaact aggetatgga ctctatcgct tcttgttctg 300  
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ggct 364

<210> 10266  
 <211> 310  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gcgcccgggtg ctggggcgca gagaccatct gatggtggaa acaccggaaa taagagcgtg 180  
 ccgctgtgtg ttttctttga aggaataaaa atggtgttcg tgttgtgcat tgcttaaaat 240  
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 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
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 gataccagag tatgtccaca tateccagga ttgcagacag ctccttgcta ggatcttcgt 240  
 cgcaaatacct gcaaagagaa taacaattaa ggagattagg aatcacccct ggttcctgaa 300  
 gaatttgccc agagagctta cagaagctgc gcaagcgaag tactacaaag aggacaacgg 360  
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<210> 10268  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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ggcaagtcga ccaccacagg acacctgac tacaagcttg gaggcattga caagcgtgtg 180  
atcgagaggt ttgagaagga ggctgctgaa atgaacaagc ggtccttcaa gtacgcatgg 240  
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aagtttgaga ccaccaagta ctactgcacg gtcattgatg cccctggaca cctgacttc 360  
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<210> 10269

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A12

<400> 10269

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accagcgtat cagatcagga cacctgagat acatgctacc acgcatagga catcgtgtga 180  
tccataggct tgagaaggag gctgctgcaa tgaacaagcc ggacttgatg tgcacatggg 240  
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<210> 10270

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A2

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gactatgcag gagcagcctc ctgcagctgg aaatggagca caagataatg aggaaaagtc 180

tgtttcgatg gaaactgatg caaagggtga gccgtcaaaa aagaaagtta agaaaactac 240  
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 agagaaagag tatgagatgg ctcttcaaga cagagtaatg gaagaaacat aggagaagaa 360  
 gaatgctggt gaagcttatg tgtatgacat gcgtaacaag ctatatgaca agtacagtga 420  
 ttttgtcaca cctgaagaca aggaaagttt gg 452

<210> 10271  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A3

<400> 10271

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 ctctagtatc aagtgtttct tgtacacaga caggcggctg cagctgtggt caacaacaaa 180  
 gccatgagca tcaacatcat gcacaacaac atcatccaca aaaacaacaa catcaaccac 240  
 caccacatca tcaccagcag cagcaacacc aacaacaaca agttcacatg caaccacaaa 300  
 aacatcacca acaacaagaa gttcatgttc aacaacaaca acatcaaccg caggaccacc 360  
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<210> 10272  
 <211> 163  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A4

<400> 10272

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 ccagagacag ctaacggggc tgtcgacatc gggaagcgt cca 163

<210> 10273  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-A6

<400> 10273

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aatggaggaa aatgcagttc aatatttgtt gaggcttcac ccggaccagg agggaatgag  180
caaagcagag gctgtccgcg ctaagctcgg gaagtttggg ttacctggac acaaccatct  240
cacgccaatc gttaaactat ccggcgggca gaaggcccg gttgtgttca cctctatatc  300
aatgtctcag cctcacatac tcctgctcga cgagccaacg aaccacttgg acatgcaaag  360
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cgactc                                         426
  
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<210> 10274  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-A8

<400> 10274

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ggcgcaaggc cttcctgcac tggtagaccg gcgaggggat ggatgagatg gagttcactg  180
aggccgagag caacatgaac gatctggtcg ccgagtacca gcagtaccag gacgccaccg  240
ccgacgagga gtacgaggac gaagaggaag aggagaacgt ggcagaatag ccatgacctc  300
cggtgccctt tttcagggcc accgcattcg acaggttggt tctctgtgaa tgagtttgtt  360
tgtttctttt ctctgcttct cgtggcttgc gtcattgga                               398
  
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<210> 10275  
 <211> 339  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-A9

<400> 10275

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ggcgtgctgt atgccaagaa ggactacaac ctggcgaagc acccgcatat cgatgtgccc 180

aacctccagg tgatcaagct catgcagagc tttaagtcca aggagtatgt tagggagacc 240

ttctcctggc agtactacta ctggtatctc accaacgatg gcattgagca cctacgcaac 300

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<210> 10276

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-H11

<400> 10276

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gaggcaacag cagaggcgat gaatgaggcc atttcaatgc cagaacagga aaaacagttg 180

aggcatgaga aacattaccg ttatgtcagc agccatgatg ttgcttattg gtcaaagagc 240

ttcatcctag acttggaag ggctttagg gaccacttta agaggacatg ttggggcata 300

gggttggtt ttggtttcag ggtggtggcc ttggacgctc atttcagaaa gcttaacatg 360

gattcaattg ttaatgctta tgagatttca gggagcaggg ctatattgct tgattatgat 420

ggaacactg 429

<210> 10277

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F11

<400> 10277

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 attcttgtga agagagacga gctgaccctt gaggggtatta agcaggctta tgtgaatgtg 180  
 gacaaggaag actggaagct ggacacactg agtgacctgt atgagaccct ggccattatc 240  
 cagagtgtca tctatgtcaa caccgacgc aagggtggact ggctcactga catgatgagg 300  
 agcatggacc acaccgtttc tgtcactcat ggtgtcatgg 340

<210> 10278

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F12

<400> 10278

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgtttcaa caatogccag ccctatcttt ggtgcagtca 300  
 ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
 gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 420  
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<210> 10279

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F6

<400> 10279

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 ggtcaagagg ccacaatgca cacacgtac aagctccagg atcacacagc acctcccacc 180



agggacttca aggggctgcg aacacccagg agggcaagcc tataggcgac aacaggcaag 240  
ggcggcgaga gagggacaac aaccaaaggc ccagtagcaa caacaatccg gggcacatct 300  
aacgaaacaa accaggggag cgcaaca 327

<210> 10280  
<211> 354  
<212> DNA  
<213> Zea mays  
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<400> 10280

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caccaggacc cttgttcgcc gccgccgcct ctgatctccg cgagggtgtc aggattcaat 180  
atgtcgacca gcacattcgc tacttctcgc acgctgttgg gcaatgttag aacaacgcat 240  
gccttcaga cagcggtgaa gagcccttcg tctctaagct tcttcagcca agttacgaag 300  
gttccaagcc tgaatacctt caagaaactg gatgtctccg ccatggctgt atac 354

<210> 10281  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-008-Q1-K1-G11  
<400> 10281

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tggtctgccg gatctactat ccgacgcgcc actgtttgcg ctgtgcttaa ggtcctactc 180  
accggtcttc tcgtcgacag cgccagtcgt gtctcccgcc acaccgacac tttttctcca 240  
tcgtctgact ccgtgctcag cgctctcacc atcaccgcgt ctctcctcgc cgggtgttcgc 300  
cgggcatacg ctcaacctcg ccaccgtggg acttacctcg ccttcaaacc gtgttcgccg 360  
cagcccagcc atcgtctacc tctacgctta 390

<210> 10282  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-G12  
  
 <400> 10282  
  
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 acggagagca aggacgtggg caagggttc cgctgcatcc gcatggtaa caacacccgc 180  
 ctcaacttcg acgccttcca cggcgacaag gaccacggcg gcgtgcacga cggcacccgc 240  
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<210> 10283  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-G2  
  
 <400> 10283  
  
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 atgtgcgcat ttagaccgac agagtctctg tagtgaattc agctcgtgtt agctcctggc 180  
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<210> 10284  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-G4  
  
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 agatgggtat ttaagagttt tcaactggcc taccatgggg tctgttctca cagaaatcga 180  
 tactaaaaca tcgattaagg atcttactat ctgtttggac gagaagtttc ttgctgagaa 240

taggagcagt ggcccatgta gagggggtgg ttagcagtca tctgaagttg tagccagtct 300  
 gccaaagagat ac 312

<210> 10285  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-G5

<400> 10285

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 acttagccag ctagctacag caagccgtgc ttccttcggg acacaacatc aggtgctgac 180  
 ggtctaccag cagtatgcgg ctaacctcgc ttccctatta caactacaac aattggtgcc 240  
 ctttgtcaaa attgatgtga cagaccagc agccttctac caacagcaca ttattggtgg 300  
 tgccctc 307

<210> 10286  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-G6

<400> 10286

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 atgctcactt gctccaagtt ccattattac acagtctctc ccaccagtta cttcaatggg 180  
 cttegaacac ccagctgtgc aagcctatag gctacaacaa gcaattgcgg cgagcgtctt 240  
 acaacaacca atgtaccagt tgcaacaaca atccttggca catctaacaa taaaaccat 300  
 cgcaacgcaa cagcaacaac aattcctacc agcactgaac cacctagtca tgggtgaacc 360  
 tgccgactat tgcaacagca gttgcttgca tcaaacc 398

<210> 10287  
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<212> DNA  
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 <223> unsure at all n locations  
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 <400> 10287  
  
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 tgcacntgca cgaccaagca acacatcgca gcatgactca tgaggacacc tgagtaagat 120  
 gacaaacgag cgtcactcgg atagaaggcg acggaacaca taagacaaac acgggacgga 180  
 tgcgtatcct aaaaaaccga ttgtacgagc gaggcaggaa atgacagatg cgcagaatat 240  
 gaggaaca 248

<210> 10288  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-E9  
  
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 tatccaccat actatccacc cccaccacca tacggtggct acatgcctcc accgcgcatg 180  
 ccctaccacac cgcaatatcc gccttaccag ccgatgctag ctcaaccagc acaggtacag 240  
 gctagttcat ctcggcaacc accgcatgca ggtggagggc agcagcagcc gcctgatggc 300  
 cctccagctc agcagcagcc acagcagcca attcagaact gaagtcctgt caagatgttg 360  
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<210> 10289  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-H10  
  
 <400> 10289

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 gcggaataact gtgacttatg cgcttggggc tttgtattac ctttgtaacc cttcgacaaa 180  
 gaaggagatc ctgaaaccag atgtagttag tactataaga gagtatgctt cagctggaac 240  
 tgtgaataac aacttttagca atctggctaa tgctttcttg gagaaacatg ttgatccatg 300  
 atatgacaat tttacaggt agactaaagc ttacacattt cgtgtacctg tgggtgtttc 360  
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 cacgatgct 429

<210> 10290  
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 <212> DNA  
 <213> Zea .mays  
 <223> Clone ID: LIB3059-008-Q1-K1-C12  
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 cgctcaggaa gccacagtat cagttatgtt atgtggatcc tgggaattgct agttcagaag 180  
 agatggagca actgaagact attgatagta tgcttgtcag gtttttaggtt cctgaaaaca 240  
 ggatgaggat tatatgtgtt ttgcacacag ggcacttccc tgggtgaaga aacatgaaca 300  
 tctaattccat tgtcgaacgg tgcgctgtac gaatgactca tcatggatgg gcctgcagaa 360  
 agatctttga cgcttgtcta actgaatctg ttttcatact ggatttactg ttttttttag 420  
 gtcctttt 428

<210> 10291  
 <211> 306  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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gtttcttaca ttcaaccaac tggctgcatt gaactctgct gcttattnag ggcaacaact 120  
accattcagt cagctagcga gtgcctaccc tcagcaagtt catacattca accaactggc 180  
agcattgaac tctgctgctt atttacaact gcaacagcta ccaccattca tccagctagc 240  
tgatgtgagc caaagtgcct aaatgacgca acaacagatg ttgacgttct acctgcacgc 300  
tgcgcc 306

<210> 10292

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C9

<400> 10292

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gagacgagac ggatggcgca tgcacgcgtg tgggtggatcg gcgcggcatg tgtgtgtggg 180  
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attatctaaa tgactatttt ttttatggct tgattgtctt tttgttctgt ttttgttggg 300  
ttttatatat ttttcttttt tttttatttt cttattcttt attttttttt ctgttttatt 360  
tttgtgtata tttttataat tatatttttt gttatttttt ttcttttttt tttttttatt 420  
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<210> 10293

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D11

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tatggaaaac gtgagtacta gttacgctac aggtatctag gatgtcactg aagcttatgc 180  
ggcagctatg cgaagtgcct tcgtcgacaa gcaggactac ctgctaaatc agaagtcctt 240

acaggagaag gtcaagtga tatacatata gctcaacttc

280

<210> 10294

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-008-Q1-K1-D12

<400> 10294

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gagaaggaca cgggtgtggtt tgtgcaattc tgcgtcccct ggtgtaaaca ctgcaagaac 120

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<210> 10295

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-008-Q1-K1-D9

<400> 10295

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caactcaage tcacatgccc ccactctggac caccaggagt attagcaggc ccagctcccc 180

aaaccttaat tagcaactct agttttggtg ttccttcaca gcagcctcac cagctctatc 240

aatcagccgc acatccaagc catttcataa tgcagcaagt tccgaacagc atgcccattg 300

ccgagcaaca acctaatagc atgcttgtaa cgcaacaagg tttgtgatac ctnagccaa 360

acacctcacc ttcatacggc tccgttgggg gtagtaatcc attcgggtaa aagaagtgtg 420

ggaataacctg ctctttcatc tttagact 448

<210> 10296

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E10

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tgtcaagtag cactagatgt gtgacatgta ccagtgatac tcttgatttg gacctgggct 180  
taacattatg cttcagcatc tggggctcga ataggcgatt agaacatgct actagaatag 240  
ccgaaccgga tatgtatgaa caatgtgaac attagaacag cttttgctta tgggtgct 297

<210> 10297

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E11

<400> 10297

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tggttggtgt aagtccgagg caactggccg aatgtaattg aggagcatca tctaagtact 180  
cggggaactc tcaggtaaac gacatcctgg acattggctg ctctgttgga gtaagcacca 240  
gatacctcac cgagaagttc ccatcagctc aagctgctgg gctcgaccta tcaccgtact 300  
ttcttggtgt ggcggcacia aaggaagaaa aactgtcacg gccaaagcct attcgctagg 360  
ttcatgccaa tgggtgaagcg accgagctgt cttcagattt atttaacctt gtcttccttg 420  
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<210> 10298

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E4

<400> 10298

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tccaggccgg gcatgaagac cagcggcaag atcatccacg ccaggctgca tgctcaggct 180



catacgctgg ctgccttggc tgggtccgcg ctggtgg 217

<210> 10299  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-E6

<400> 10299

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ggcatgtaat cgtgttagaa tgaaggatgc aagggtgcga tggagtggag gtcaatcggc 180  
gtgtgatgcc acgtcactag cttagctgta gatggtttgg tggacttttg aggaacagat 240  
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tcca 304

<210> 10300  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C11

<400> 10300

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caacaattgc aacagtttct accagcgctc agtcaactag ccatggtgaa ccctgccgcc 180  
tacctacaac agcaacaact gatttcactc agccctctcg ctgtgggttaa tgcacctaca 240  
tacctgcaac aacagttgct gcaacagatt gtaccagctc tgactcagct agctgtggca 300  
aaccctgctg cctacttgca acagctgctt tcattcaacc aactgactgt gtcgaactct 360  
gctgcgtacc tacaacagcg acaacagtta cttaatccac tagcgggtggc taaaccaatg 420  
gtcgtgcctt ttctacagta gtaacaatt 449

<210> 10301  
<211> 425

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-E8  
  
 <400> 10301  
  
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 gcaccccgat gcttgccttc gacgcaattg gacaagtga agatgaaata tgcatttatc 180  
 tcagatgggt gcttactgag agaatgcaac atcgagcatt ctgtgattgg agtcgggtca 240  
 cgtgtcagct ttggatgtga actcaaggac tccgtgatga tgggagcgga cacctatgaa 300  
 actgaagaag aagcttcata gctactgtta gctgggaagg tcccaggtgg aataggaagg 360  
 aacacaaaga taatgaactg tatcattgac atgaatgcta ggattgtgaa gaacgtgggtg 420  
 atcac 425

<210> 10302  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H9  
  
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 tggatctgta caggtattag cggctacaca aatgcctgaa gagccagctg gatggttcca 180  
 ggttacagca gactctatca gaaaatttat ctgggtactc gaggattatt acagtcacaa 240  
 atccattgac aacattgtaa tcttgagtgg cgatcagctt tatcggtatga attacatgga 300  
 acttgtgcag aaacatgtcg aggacgatgc tgatatcact atatcatgtg ctctgttga 360  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 10303

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ctcacaagct cctatagctt cccttcttcc cccatacctc tcaccagcgg tgtcttcaat 180  
gtgtgaaaac ccaattgttc aaccctacag gatccaacag gcaatcgcaa caggcatctt 240  
accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctntggt 300  
ccatthttgtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
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<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A12

<400> 10304

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tgtccttggg tttgctttgc tggctctctg ttttcgtctc tcgtgttgc tttaatctgg 180  
cacaggtttc taaaaaaaaa atttgattct at 212

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A8

<400> 10305

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aactcaagga ctccgtgatg atgggagcgg acacctatga aactgaagaa gaagcttcaa 120

agctactgtt agctgggaag gtcccagttg gaataggaag gaacacatag ataaggaact 180  
gtatcattga catgaatgct aggattgggg agaacgtggt gatcacaac agtatgggca 240  
tccaagaggc tgatcacccg gaagaagggt actacataag gtctggaatc gtggtgatct 300  
tgaagaatgc tccatatacg atgggattgt catatagatc 340

<210> 10306

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A9

<400> 10306

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gagttgttta ccgggttgaa gcgctaaaaa ggctatcggt ctctgacaag gttactatcg 180  
ttcttcctgc cactgggtcaa actgaagaag ttgaagtcag ctacgataca tgagaggagg 240  
cagagtcacc atcatcatgg ggctaacca caactgctgt tatgctcaca tgcattcattg 300  
tgacaatagt cactgttgca cttttcatta agttgctgct gagacctatc agacatgcac 360  
tatcagggag catgacagca ttcataccat ctcgagcact aataatttga t 411

<210> 10307

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B11

<400> 10307

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agtcaactag ccatgggtgaa ccctgccgtc tacctacaac tactttcatc tagcccgctc 180  
gcggtgggca atgcacctac gtacctacaa caacagttgc tgcaacaaat tgtaccagct 240  
ctgactcagc tagctgtggc aaaccctgct gcctacttac aacagttgct tccattcaac 300  
caactggctg tgtcaaactc tgctgcgtac ctacaacagc gacaacagtt acttaatcca 360

ttggcagtgg ctaaccatt ggtcgctacc ttctgcagc agcaacaaca attgctgcca 420  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-008-Q1-K1-B12  
  
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aagtaggttc tggagatgct accgtaatgg aaacatattg caagcatgag tccttagcat 180  
acggtgcaga ttggcagaaa agtgaagagg tggagcaaaa tggaaattct tcagttgttg 240  
ctacttgtgc gttttatgat cgccttctcc gtgtgtggca accagagaat ctagctgagc 300  
tttaaagacc taaagctttt tttgaattga attcaagcat gactaggtct tgaatcttat 360  
tccttgaatg 370

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<211> 62  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-008-Q1-K1-B5  
  
<400> 10309

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gg 62

<210> 10310  
<211> 303  
<212> DNA  
<213> Zea mays  
  
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catgaaaaag gagctggagg tggagaagtt catcacgcac agcgtccctg tcgactagat 120  
 caacaaggcg ttcgacctga tggccaaggg ggagggcatc cgctgcatca tccgcatgga 180  
 gaactagatt tcgctgtcta gtttgagatg tggcctgggc ttgggggttaa taaatgaggc 240  
 aatgctagcc tgtattttcg atggggaggt acatacacgc tggcaatgga ccgggcttgt 300  
 gtg 303

<210> 10311  
 <211> 205  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B8

<400> 10311

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 gaaaccaag gggaaggggg acacgacata actgaacgac ggtaaaggag aaaactagca 180  
 agcgaggtag ctagacagac ggctc 205

<210> 10312  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B9

<400> 10312

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 gtttggacgt ggatggctag atgctatctg ggatgcttgg catcagtgtg attggtgaca 180  
 gaattgcata catgaactca tcattatgat tgctcattga gagacctgat ggaaaggggt 240  
 agccaacgac gagatcccat aatgtagcca gaatgccagt ggagtgaagg atggcatgat 300  
 gtctttgtgt ggattgtttt atgtgttttg gttgaatatt tttttgtttt attatctatt 360  
 ttttgagttt ttaatttttt t 381

<210> 10313

<211> 351  
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 <213> Zea mays  
  
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 atgccagagc ttactgaagt agcaatggcg taccgtgtcg agtacctaca cctactatca 180  
 tttagcgcgc tcgaggtggg caatgcacct acgtacgtac aacaacaggt gctgcaacaa 240  
 attgtaccag ctgtgactca tctagctgtg gcaaaccctg ctgcctactt acaacagttg 300  
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<210> 10314  
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 <213> Zea mays  
  
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 agcgctgcta cctcgacttt tattccacaa tgctcacaac aatacctctc tccggtgaca 180  
 gccgcgggat ttcaataccc aactatacaa tcctacatgg tacaagaggc catccaagca 240  
 agcatcttac ggtcattagc attaaccctt caacaaccat atgctctatt gcaacagcca 300  
 tccttagtgc atctgtatct ccaaagaatc gcggcacaac aactacaaca acagttgcta 360  
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<210> 10315  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-G1  
  
 <400> 10315

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agagccaaaa gcgcattgcta tttgaaaatt atggcaagaa agatccagcc tgtgtggcaa 120  
aagtgaagaa cctctacaaa gaacttgacc tagaggcggc atttcaggat ttcgagactg 180  
agagctacaa gaagctgatt gcagacatgg aagcccagcc aagcattgac gttcataaag 240  
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<210> 10316

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G10

<400> 10316

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gatattgtta tgctttatgc tccttgcgca tgttgtatgt gtctgctaaa tcgtcaatta 120  
tagctcaatg ctcacatgct tctattgctt tccttcttac cctatacttt tcatcaatga 180  
tagcttttagt atgtga 196

<210> 10317

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G12

<400> 10317

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<210> 10318

<211> 434

<212> DNA

<213> Zea mays

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<400> 10318

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cacaatgggt atctcgcgtg actcgatgca caagcgcccg gccaccggtg gaaagcagaa 120



ggcctggagg aagaagcgaa agtatgagct tggctgccag ccagccaaca ccaagttgtc 180  
aagcaataag acagtgagga gggtcogtgt tctgtggaggt aatgtgaaat ggagggctct 240  
tcgccttgat actggtaact actcatgggg aagtgaagct gttacccgca agaccggtat 300  
cctcgacgtg gtctacaatg catcaaaca tgagcttggt aggacacaaa cccttggtgaa 360  
gagtgccatt gtgcaagttg atgctggctc attcaagcag tggttcctta ctcactatgg 420  
agttgacatt ggta 434

<210> 10319

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G5

<400> 10319

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taaggccggg gacgacgagg agttctcgga gctgtacacg ttcaagtgga ccacctgct 180  
gatacccccg accacgtcc tctgctgaa cttcatcggg gtgggtggccg ggatctcgaa 240  
cgcgatcaac aacgggtacg agtcgtgggg ccctctgttc gggaagctct tcttcgcgtt 300  
ctgggtgacg gtccacctgt acccgttcct caagggctctg gtggggaggc agaacaggac 360  
gccgaccatc gtcacgggt ggtccatcct gctggcctcg atcttctcgc 410

<210> 10320

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G6

<400> 10320

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acatcgcgac gactgagccg tcgaggcgtc tgcaaagact gaccgttcgc gccggcttta 120  
acgcagactg catggagtac aactacagtg cctacacatg ttgtcaaacc cgcaaagatc 180  
aacttatcaa gcagacttac cggcaacagg ctgaagcttc atctaggcaa cgctaaatgc 240

atggcggttag ttcttggtag tgacagctac ttatgaggta ctgatactct tacc 294

<210> 10321

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G7

<400> 10321

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gttgtcttct tcccccccg agaaaagtgc ttccgagaat aaattttttt ccatcggaat 120

gtctgaaact atgttgggtg tatcctagtg gttgggtgag cattaatggc tcatattttg 180

tcaggcttat gtgttgccgt gaaactttta atcaaatcag ttcactctat ataataatat 240

atattatttt tatctattgt ttttttttta tttctttttt tttttggtat ttttcttttt 300

tatttatatt tttttatttt tttt 324

<210> 10322

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G8

<400> 10322

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tggcgcgcc atgtgctcgc gctggttcat gctcatt 97

<210> 10323

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G9

<400> 10323

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catttgctct ggcaaacata gttgcatacc aacaacaaca acaattgcaa cagttttctac 120

cagcgctcag tcaactagcc atgggtgaacc ctgccgccta cctacaacag caacaactga 180

tttcatctag ccctatcgct gtggttaatg cacctacata cctgcaacaa cagttgctgc 240  
 aacagattgt accagctctg actcagctag ctgtggcaaa ccctgctgcc tacttgcaac 300  
 agctgcttcc attcaaccaa ctgactgtgt cgaactctgc tgcgtaccta caacagegac 360  
 aacagttact taatccacta gcggtggcta acccattggt cgc 403

<210> 10324

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H1

<400> 10324

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 tgattgatta ccttgacaga cttccagatg ttgatatggt ctttttattt gtcccttttt 180  
 ttttatgttt tcgtgttt 198

<210> 10325

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H10

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 gcacacagag atgtcgacga cggtagagccg tgcgtccctc gaccagaagc tcgccctcgc 180  
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 cgctccgcgc atccccaccc tggccagcgt gcggatgctg ccatgggcca aggccaacat 300  
 caaccccacc ggccaggcgc tcatcgtctc cacggtggct gggatggcct acttcatcgc 360  
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 cc 422

<210> 10326

<211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H11  
  
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 atggtcagcc acgttgccgg gaagaactcc gtcctgagcg acttgccggc cgtcgtcatc 360  
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<210> 10327  
 <211> 204  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-007-Q1-K1-H2  
  
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 gcgagatcgt ccgcgtggag ccggagcacg gctttcacca gctgaatccg cgccgcgtcg 180  
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 <213> Zea mays  
  
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cgcaacaaat gcgttcatta ttccacaatg ctcacttgct cctagtgccca ttattccaca 180  
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acaacaagcg cttgcggcga gcgtcttaca acaaccaatt gcccaattgc aacaacaatc 300  
cttgccacat ctaacaatac aagccatcac aacgcaacag caacaacagt tcctaccagc 360  
actgagccac ctagccatgg tgaacctgc cgtctacttg caagagcagc tgcttgcatc 420  
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<210> 10329

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F8

<400> 10329

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tattatactc tgttctttct tttttatttg tcgcggctca gtttaaaaat gaactagcgg 180  
gcgacaaata ttcaagaacg gaggtagtat atgaggtagt atatgactta gacgtaactt 240  
tagtgcaccg aatgtagtca acctttgttt gctttggaga atgaggattt gttgttctag 300  
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<210> 10330

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-H5

<400> 10330

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gccgccgtcc ctgctcgcgc ggctctgg 148

<210> 10331  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H6  
  
 <400> 10331  
  
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 aactcccttg tccaggctat tgcgttgctt cggcagaaga agagagatga tgtgctttca 180  
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<210> 10332  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H7  
  
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 aggagtgaag tgccctcttc tctgcaagga gtttgctcatt gacaagtggc aaatctataa 180  
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 catatggaaa tttcttcaga tttgcgaaga gttgggaatg acagctctta ttgaggttca 300  
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<210> 10333  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E12  
  
 <400> 10333  
  
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acaaccgtca gccctattac agcagttacc tttgggtccat ttgggtggcac aaaacatcag 180  
gtcacaacaa ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca 240  
gtttcttcca ttcaaccaac tggtgctgatt gaactctgct gcttatttgc aacaacaatt 300  
accattcagc cagctagttg ctgcctacc acagcaattt cttccattca accaactagc 360  
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tga 423

<210> 10334

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E3

<400> 10334

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agaggtatct acgaccatca acatgtgcat tacagggtgct acctgtggtg tatttatatg 120  
cacataccat tacgggacaa ccgtatact aacatgcgcc tgtaaa 166

<210> 10335

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E4

<400> 10335

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tcctacggct gatcctgcta agaaacgcga tgaggagaaa gctgccaagg agcaaacgca 120  
gtcgtaagca cggaattatc tgcaatatca ccgacgatgc gtccactaaa gcatgatcag 180  
agttagttgt atatcaatag ctaatgcac atatatcttg ttataaacct ggatcctaatt 240  
ctgtattgcc atgacatatg cattgacagt att 273

<210> 10336

<211> 388

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E5  
  
 <400> 10336  
  
 aaacccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 60  
 atcacccttg ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 120  
 attggcacia aacatcaggg cacaacaact acaacaactt gtgctagcaa accttgctgc 180  
 ctactctcag caacagcagt ttcttccatt caaccaacta gctgcattga actctgctgc 240  
 ttatttgcaa caacaactac cattcagcca gctagctgct gcctactccc aacaatttct 300  
 tccattcaac caactggcat tattgaactc ttctgcttat ttacagcatc acaactact 360  
 tccattcagc cagctagctg gtgtgagc 388

<210> 10337  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E7  
  
 <400> 10337  
  
 cccacgcgtc cgcccacgcg tccgcggacg cgtgggcaac tagcaacata gaaagcacia 60  
 tagtgtacca acaatggtag ccaaaatatt ttgcctcctt atgctccttg gtctttctgc 120  
 aagtgctgct acgacgacca ttttcccgca atgctcacia gctcctatag cttctcttct 180  
 tccccatac ctctcaccag cgttgtcttc agtatgtgaa aaccaattc ttcaacccta 240  
 caggatccaa caggcaatca cagcagcat cttaccttta tcacccttgt tccttcaaca 300  
 atcatcagcc ctattacatc aattaccttt ggtgcattta ttggcacaaa acatcaaggc 360  
 acaacaacta caacaactcg tgctagcaaa ccttgctgcc tacgctcagc aacagcagtt 420  
 acctttggtg caattgttgg caca 444

<210> 10338  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E9



<400> 10338

gtaaaaccac atgacagtga aggcaaacca gggccgcagc aagccgggca agctcaggca 60  
tcaagcaacc cagcacaagg gggcggtat cctgcaccac cgccatacta ccatggtcag 120  
tatccaccat actatccacc ctccaccacca tacggaggct acatgcctac accgtgcatg 180  
ctctacctac cgcaatatcc gacttaccag ccgatgctag ctcaaccagc acaggtacag 240  
gctagt 246

<210> 10339

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F1

<400> 10339

atcgagagct acggcgagcg cgagcaccgc agggccaagg tgcacctgag gtgcgcgcac 60  
gggcagtcca tctccgcgat cagattcgcg agcttcggga cgctgtggg cacctgcggc 120  
aacttccagc agggaggctg ccactcggct agctctcacg ctgtgctaga gaagagatgc 180  
attgggctcc agagatgcgt cgtcgccatc ttccccgaca acttcggagg agaccctgc 240  
ccgagcgtga cgaagagggt ggcggttgag gctgtgtgct tttctgctgt ttaagtttat 300  
tctgttttta cgtcttatta ttt 323

<210> 10340

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F10

<400> 10340

ggtgagaggt atgggggaag aagggaagct ataggagctt gtgagcattg tgggaaaacc 60  
caattgttca accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac 120  
ccttgttcct ccaacaaccg tcagccctat tacaagagtt acctttggtc catttggtgg 180  
cacaaaacat cagggcacia caactacaac aacttgtgct agcaaaccctt gctgcatact 240  
ctcagcaaca tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 300

tgcaacaaca actaccattc agccagctag ctgctgccta cccccagcaa tttcttccat 360  
 ttaaccaact agcatcattg aactctgctg cttatttaca gcagcaacaa ctactaccat 420  
 tc 422

<210> 10341  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-F11  
 <400> 10341

ctagcaacat agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctcct 60  
 tatgctcctt ggtctttctg caagtgtctg taccgcgacc attttcccg c aatgctcaca 120  
 agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtctt cggtatgtga 180  
 aaacccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240  
 atcacccttg ttccttcaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300  
 attggcacaa aacatcaagg cacaacaact acaacaactt gtcctagcaa accttgctgc 360  
 ctactcttac aacagcagtt tc 382

<210> 10342  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-F12  
 <400> 10342

ttgccattgc tctcctggcg ctgctgcga gcgccgactt cagtacaagc ggcggctgtg 60  
 gctgccagac accaccgttt catctaccgc cttcgttcta tatgccgcct ccggtctatc 120  
 tgccgcgcga gcagcagccg cagccatggc aataccccac tcaaccaccg cagctaagcc 180  
 cgtgccagca gttcggatcc tgcggcgta gcagcgtcgg cagccccgtt ccggtgccag 240  
 tgcgtctagt tcctggagca ccagtgcagc ccggcggcga ctccctacgg ctgccacaa 300  
 tgccaggcgc tgcagcaaca gtgctgccac cagatcaagc aggtggagcc attgcaccgg 360  
 ttccaggcca catacggtgt ggt 383

<210> 10343  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F4

<400> 10343

cggacgcgtg ggggctaccg ccgccgtttt acgccaggtg ccgaggcctc tctgtctgtt 60  
 cgccggcgac gatccaatag ccagcagcag caggaggaca ctatgaagct tgacgtgaat 120  
 gcccttcgct acctcgccaa ggacgacttc cgcgtcctca ccgccgtcga gatgggcatg 180  
 cgcaaccacg agattgttcc agcagaactt gtctacagga tcgccagact gaagcatgga 240  
 ggcacatata aagtgtctgag gaatcttttg aagaacaagc tagtgcatca tgatgccact 300  
 aaatacgatg ggtatagact ctctatcta gtttatgact tttcttgcca ttaatatattt 360  
 ggttatatatt ttttgttttt gctt 384

<210> 10344  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F5

<400> 10344

cggacgcgtg ggttattatt gaattacatg taattagcaa tctaaaagag gtcaccatga 60  
 acgatatgtc agtgggaagga ggctactgag tttgtaacat catgacgtac aatagggcta 120  
 caattgaatt agcattatga aggtttcttc ttttcgatca tttatctggg gttactgaat 180  
 aattttcttta tataatctaaa tttgtttttt cttttttttt tttttcttat tttttatgag 240  
 acttttttct tttttgttta tatattattt ttttttttat ttttttttta ttttttttta 300  
 tttttattta ttttatttta tttttttatt tttatatattt ttattttttt attatttttt 360  
 ttaatatattt ttatttttta tttttttatt tgttatattt tatttgttta tattatttta 420  
 tatattttat ttattattag tttatttttt atttttattt attatttta t 471

<210> 10345  
 <211> 122

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-F6  
  
 <400> 10345  
  
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 ttcctgctac gatccattag ccagcatctg cagggtggaca ctattatgct tgacgtgaat 120  
 gc 122

<210> 10346  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-F7  
  
 <400> 10346  
  
 aaagtggaat ccagtagcaa caatagagca acaatggcga ccaagatatt ttcctcctt 60  
 atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttcctca atgctcacia 120  
 gctcctatag cttcccttct tccccatac cttccatcaa tgatagcttc agtatgtgaa 180  
 aaccagctc ttcaacccta taggctccaa caagcaatcg cagcaagcaa cataccttta 240  
 tcacccttgt ttcaacaatc gccagcccta tctttgggtgc agtcattggt acaaaccatc 300  
 agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac 360  
 ctttctccct actctcagca acaacaattt cttccattca accaactgtc tacattgaac 420  
 cgtgctgctt atttgcagca acaac 445

<210> 10347  
 <211> 254  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-E11  
  
 <400> 10347  
  
 aatgggttcag gatttctttg aggatgttgg actcactggt tagcttacac ctgggtggtt 60  
 ccacgataga tgggcttctg aaaatgttca acttgtatgt aaacttgctt ataatggaaa 120  
 ctgggttgcac gtagtcctct gcaactggcc gaatgtgatt gatgtgcatc atttaagatc 180

tctgagaact gtcattgata ctacatcttg gacatctgct gcattgttgt attatgcact 240  
atattcccta tcga 254

<210> 10348  
<211> 216  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-007-Q1-K1-C11  
  
<400> 10348

atgcattaat tgcattgccac gtatgcttta tatcaaagca catgtagagt tgtcaactgg 60  
ttctgctgat gaattcgaac taactcaaaa cattaaccga gtttgtcata ctcttggaatt 120  
tcattgctgt tgccttctgc gtagtaagct ttttaattctc gacaggctga tgatgatgat 180  
gaccttgatc tttttggtga tgaattctgat gtggac 216

<210> 10349  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-007-Q1-K1-C2  
  
<400> 10349

cggacgcgtg ggccgccgac ctggagctga agatctcgac cgcccgccag agcagacacc 60  
agcagcaggt ccagatgggg ccatcgctgc cgccgccgcc gccgccgccg cagaggacgc 120  
cctttctggg gaccatcagg gtcacatgac atgaccggca aagacggcgg cggtttagtag 180  
ggaatatacct gctggttagga gaagagcttt tgcccatctg aagctggaga aggttgcttc 240  
aaaagatagg acgggggtggg aaaactggat agaaggaagc ttttggcagc gtgtgcgtgt 300  
gtgtgtgttg ctggcacctg gcatttgcag ccgattacga ctattggctt gtgtatcatg 360  
tggtttttgt gttatattat attattgtta tttttatggt ggtatccttt att 413

<210> 10350  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-007-Q1-K1-C3

<400> 10350

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tttttgagtc tgagtccttg aaatggcctg gatttgtaga gtttgatgat gtcaatggaa 120  
gggttttgac ttactctgct caagacagca cttacaaggt gtttgatttg aaaaactaca 180  
cattactgta tttggtgtct gataagaatg ttcaagaaat aaagatcagc cctgggataa 240  
tgctattgat ttatgcaaga acaagcagct cggttcctct gaagattctt tccattgatg 300  
atggtacagt cttgaagtcc ttcagccacc ttcttcatcg taacaagaaa gtagatttta 360  
ttgagcagtt caatgaaaag cttctggcca agcatgaagg agagaacctt caaatccttg 420  
atgttaggaa ctttcaattg 440

<210> 10351

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C4

<400> 10351

cccacgcgtc cggcaacata catagtgaag tacactagca acatcttaac accaatggca 60  
gccaatatat ttgccctact tgccttaact tgctctttca gcaaacgttg ctactcgcac 120  
tattattgca cactgctcac aacaatacct ctttccggtg acagccgcga gatttgaata 180  
cctatctata caatcctact tgctacaata ggccatcgta ttaagcatct tacagtcggt 240  
agcatagact gtcctatat 259

<210> 10352

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C5

<400> 10352

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ctttgggagt ctgagtcctt gaaatggcct gtatttgtat agtttgatga tgtcaatgga 120  
agggttttga cttactctgc ttaagacagc acttacaagg tgtttgattt gtaaaactac 180

tcattactgt atttggttgt ctgataagaa tgtttaataa atatataatca gccttggg 238

<210> 10353

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C6

<400> 10353

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aagcctccga gtccattctc ttccgggtga agatggtctg ccggatccac gggtcaggcg 120

acgtggttct cgactacgag gtaaaccaca ggagcgacct ccctccctt ccccggttg 180

gcgtcgtgtt cagcgccggg aggtccctga gccacgtcac gtggtacggg cgcgggccct 240

tcgagtgtta cccggaccgc atggcggtg cgcacgtcgg cgtgtacgag agcagcgtgg 300

aagagctgca cgtgc 315

<210> 10354

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C7

<400> 10354

gaatgaaggg attgtgccag ggttgatgac ctacggagca gtggtggatg ggctggtgaa 60

gtgtgggaga gtggaggatg catggaaggt ggctcaggaa atgggggggc aggactagc 120

accagtgag tttgtgttct ccgctgtgat caccgggttt tgcaagtcag gagagttga 180

cagggcattg atggtgtggg agacaatggt ggcagctagg gtaaagccga atgttgtttt 240

gtattcagta ctgattgatg gttttgcacg gtctgggagg atgacagaat ctgataagtt 300

atgtgaagaa atggcttatg cgaaatgtat cttagatatt tggacattcg ttttaatgtg 360

tctgttattt ttttactttt ttt 383

<210> 10355

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C8

<400> 10355

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ctcgaaccct ctgcgccttg gcttgctttc actctccagg gcccactcc caccttgccg 120  
ccgcattcat ggcgatcaca gtcccaactt ttacattct ctgttagcgc cttgtcggcc 180  
tgtacttttt tattctttac gttttttttt ttttatttgt tatatttatt tttttttata 240  
tttttatttt tctattttta tttttgtttt ttttaaattt aatttttatt atttttattt 300  
attttttctc tttttttttt tttttttttt ttctttattt ttttttctt tattttattt 360  
tttttatttt tcatttttta ttttggtatt tatttatatt attttttatt ttcttttttt 420  
ttttcttatt ttttatttta 440

<210> 10356

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-C9

<400> 10356

aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aacaaacagg 60  
gacatttttt ccaaataaca caagcgtacg cacacataca tgcaaataaa tagcccttct 120  
atcacaacac aaaaaactaa caaa 144

<210> 10357

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-D11

<400> 10357

agcatcctac gaattcaagg atacagacag catgcagcac ccatgtccaa ggtcttcacc 60  
cttgactcgg tcaccaagca caagtgaag caggatagct ggctcatcat cggcagcaag 120  
gagtatgatg tgacgcagac atgggtatac cact 154



<210> 10358  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D12  
  
 <400> 10358  
  
 cggacgcgtg ggctcgccat acgcatggac aacctgtacc tcgtgggctt caggaccccc 60  
 ggcgggggtgt ggtgggagtt cggcaaggac ggcgacaccc acctcctcgg cgacaacccc 120  
 aggtggctcg gcttcggcgg caggtaccag gacctcatcg gcaacaaggg tctggagacc 180  
 gtcaccatgg gccgcgccga aatgaccagg gccgtcaacg acctggcgaa gaagaagaag 240  
 atggcgacac tggaggagga ggaggtgcag atgcatatgc agatgctcta tgcctctgat 300  
 ct 302

<210> 10359  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D3  
  
 <400> 10359  
  
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 cccccgcgcg ccgtcatgaa gcgcaatccc cgcgtcacga gctcccgccg gaagtgccgc 120  
 aaggcgcact ttacggcccc gtcctccgtc cgccgcgttc tcatgtccgc cgggctgtcg 180  
 acggagctcc gccacaagta caacgtgcgc tccatcccga tccgcaagga cgacgaggtg 240  
 caggtcgtgc gcggcaccta caagggccgc gaggggaagg tgggtgcaggt ctaccgccgc 300  
 cgctgggtca tccacgtcga gcggatcacc cgctagaagg tgtacggctc caccgtgaac 360  
 gtgtgcattc tcccttt 377

<210> 10360  
 <211> 463  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D4  
  
 <400> 10360

ggcaaacggtt tggtcacatt tttaggcctg ctcatattat gcccttgctt gagattgttc 60  
 ggacggagaa gacatcacca caagctatcc ttgatctcat caccattggg aagataataa 120  
 agaaagtcc tattgtgggc ggcaactgct caggatttgc agtcaaccgt tcattttttt 180  
 cttacacaca gtgttcttat tttttagtta ggtcttgtaa ttgattgttt ttatatattg 240  
 tttttttatt atcattcttt ttgattgtct tttgattact ttgaaattat tttttttttt 300  
 ttttttatta gttttgtatt ttttattttt tatattttat attgttatta ttattttgtt 360  
 taatatatta tgtttttatt tattttttatt tctttttttt attattgttt atttattgta 420  
 tttgtttgta ttttaatggt attttatatt ttttttttat att 463

<210> 10361  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D5  
  
 <400> 10361

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 aactagggcc gctgctacga cttctggctg gagttcagcg agtgcagag ccgctgtcgt 120  
 cagcccttcg actgcggcct tcttcgcgag gactaccttg agtgcctcca ccactcctag 180  
 gagttccagc gctggtacag gatcta 206

<210> 10362  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-D8  
  
 <400> 10362

cccacgcgtc cgggtgcagcg agcccacccc gaccagcgac cactgccatg tcgaggcgcg 60  
 gcgactgggt ctacgagaac aacggcgggt agacctgctg ggccatcgcc ggcgccgatt 120  
 actgtgtcgt cggggcggac accgcctct ctgtcggata cagcatcctc acgcgcgacc 180  
 actctaagat ctgcgacctg gctgacaaat gtgtactagc atcttctggc tttcagggtg 240  
 atattaaagc tctgcacaag aacctagctg ccagagaatt gctataccaa caccagcata 300

acaaatggat gagctgccct gccatggcac aacttctctc caataccctg tactacaagc 360  
gctttctttc caatattacg ccttttaatg tgctcggagg gctttgtcag ct 412

<210> 10363  
<211> 398  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-007-Q1-K1-D9

<400> 10363

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tcaagagaac ctgctatgct caggcatccc agatccgtca gatccgccgt aagatggttg 120  
agattatgat caaccaggct tctacatgtg acctgaaaga acttgtttcg aagttcattc 180  
cagaagttat tggttaaggag attgagaagt ctacctncag catcttcca cttcaaaacg 240  
tcttcatccg caaggtgaag atactcaagg cccccaagtt cgatcttggg aaactcatgg 300  
aggttcatgg cgactacaaa gaggatgttg gtgtgaagct tgagaggcct gtcgaggag 360  
atgaggctgg gcaggaagtt gctgctgccg agtagttt 398

<210> 10364  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E1

<400> 10364

gtcagtgctg tggacaaggg ttcagggaag aagcaggata tcacaattac tgggtgctagc 60  
actctgcca aggacgaggt ggagaggatg gttggcgaag ctgataagtt tgcaaaggag 120  
gacaaggaga agcgagacgc cattgacacc aagaaccaag ccgagtcggt catctaccag 180  
accgagaagc aactgaagga actaggggac aaggtcccag gtgacgtcaa ggggaaag 238

<210> 10365  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A4

<400> 10365

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accaagatat tttccctcct tatgtctcct gctctttctg catgtgttgc taacgcgaca 120  
attttccctc aatgttcaca agctcctata gcttcccttc ttcccccata ccttccatca 180  
atgatagctt cagtatgtga aaaccagct cttcagcct ataggctcca acaagcaatc 240  
gcagcaagca acataccttt atcacccttg ttgattcaac aatcgccagc cctatctttg 300  
gtgcagtcac tgttacaac ca 322

<210> 10366

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A5

<400> 10366

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ttccatttaa ccaacgtgac tgtgtcgaaac tcttgctgcg tacctacaac tgcgacgaca 120  
ggctacttaat gcactagcag ggcctaacc attggctact ggctttctac agcagcaaca 180  
attgctatcc atacagtcag ttctctttga tgaaccctgc cttgtcgtgg cagcaaccca 240  
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<210> 10367

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A6

<400> 10367

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ttactccaat tgtgacctct ggtatggtaa tgcaacttct tgtcggatcg aagatcattg 180

aagttgacaa cagtgtgaga gaggatcgtg ctctgctgaa tgggtgcacat aagttgcttg 240  
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tttaatcatt tttcattttt tttctacatc attaataatt gct 163

<210> 10369  
<211> 417  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-A8  
<400> 10369

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caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc aaacctttct 180  
ccctactctc agcaacaaca atttctttca ttcaaccaac tgtctacact gaaccctgct 240  
gcttatttgc agcaacaact attaccattt agccagctag ctactgccta ctcttagcat 300  
caacaacttt ttccatttaa ccaattgtcc gtactgaacc ccgctgctta tttgcagcag 360  
caaattctac taccatttaa ccagcttgct gcagcaaacc gtgctttctt tttgaca 417

<210> 10370  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A9

<400> 10370

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catcagatcg tcaccgtaga ctgccagcca tcgggtcccc agggaggcat gctcgtcttc   180
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catttgctgc cggccgctgg gtccttcttc gtgcagaatg acatgttccg cctgaactat   300
ggctaaagac acccgatact cttgtgatga aggaattgat taagggtttc atgttgaaac   360
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<210> 10371

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B1

<400> 10371

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tatggtaccg accttcttag ttgctttttg gtgccacaag ttatgctgaa cctgttgata   180
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ttttttgttt ttgtgctatt tttttttttt ttatatcttt atatttattt tatatctttg   300
tttttttttt tatatatttt gttttgtttt tttttatttt attaattatt tttcttttgt   360
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<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B10

<400> 10372

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gtaacgggcg actgggtcat catagtgtcg aagaactcta agtgatctgg taattagtca 120

tcttgcaaca tttattgcct ttctttgggt tcacggaatt ctatcctttg ttgaaaaaaa 180

ctgttattta tgtatggttt gactgatatg ttgggttattt gtaattgatt ttattgatta 240

tggtattggc tttgtattct attttttatg agtttgtttt gttaatagta ttttttattt 300

tattttattt ttgtattgtt ttatttttat ttttatttta tgattttctc ttttatttta 360

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<210> 10373

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B11

<400> 10373

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cgttgccgca gcagtgttgc cagcagctca ggcagggtgga gccgcagcac cgggtaccagg 180

cgatcttcgg cttggtcctc cagtccatcc tgcagcagca gccgcaaagc ggccaggtcg 240

cggggctggt ggcggcgcag atagcgcagc aactgacggc gatgtgcggc ctgcagcagc 300

cgactccatg cccctacgct gctgccggcg gtgtccccca ctgaagaaac tatgtgctgt 360

agtatagccg ctggctagct agctagttaga gtcatttagc ggcgatgatt g 411

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<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B12

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aagcagaggt tctttggcaa gctcaaggcg taagggtgctg cgggtgcagcg aagtcccatt 120  
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<210> 10375

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B2

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aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaataa aaaagaaata 120  
aatatacata taaaaaaatc taaaatttaa aaatttagat attattaata tatataaatt 180  
atataaagat ataaattata ttatttatta ctatttaa atattatat 229

<210> 10376

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B3

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<210> 10377

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B4

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atctaagtta ataggcaact ggattcgaca tctgtgtcct actagttctg agcataccaa 240  
cagatttttc tatgttacta gtaattttgt ttgtcatatt tggttttttt gcaactaagt 300  
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<210> 10378

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B6

<400> 10378

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catctaggga gccttcaaaa gttgcctacc gtgaactaga gacacccct tttttgttgg 300  
cattggatgt gttcttactt cggtcaggga cagttgaagc gtatctagac tctagagact 360  
gtttgtcttg ctagaattt 379

<210> 10379

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-B7

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gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
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ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
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<210> 10380

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-A3

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 agtgcctaac ccattgggtca ctgccttctc acagcagcaa caattgctac catacagcca 180  
 gttctctttg atgaaccctg ccttgcgtg gcagcaaccc atcgttggag gtgccatctt 240  
 ttagattaca tatgagatgt aatcgataat ggtgcctca taccggcatg tgtttcctag 300  
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<210> 10381

<211> 449

<212> DNA

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 catccgcgga ggtgggtaac cagaacgtga taagcaacac ggacatccaa catcaacttt 240  
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 ccgcatcatg tcatccaaac atgtcaaagc cttccccgtg ttggagatgg gagaagcttc 360  
 gggagctttt caccttcccc gggaaatgat cgattcttgg atttcgcatg atgtttccgt 420  
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<210> 10382  
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 <213> Zea mays  
  
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 gactgtacca cgtgaggtgt gtccgcgttc gtacagccag ccagatcgga tcggatcggt 360  
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 <212> DNA  
 <213> Zea mays  
  
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cttcattggc caaggccggc ccaaccacca acggttccaa gtcttcatct gcaccggcgc 360  
gaccccttgg ctcgacggca agcacgttgt cttcggccaa gtcgtcgagg gcatggacgt 420  
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<213> Zea mays  
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<212> DNA  
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<210> 10387

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H10

<400> 10387

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<210> 10388

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H11

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 gctgagagga cgctaccata ggaatgggag caggaaccag gaggaggaga cggtagctgc 180  
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cgt

423

<210> 10389

<211> 367

<212> DNA

<213> Zea mays

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ttaaccaatt ggccgcactg aaccccgctg cttatttgca gcagcaaata ctactaccat 180

ttagccagct agctgcagca agccgtgctt ccttcttgac acagcaacag ttgctgcctt 240

tctaccagca gtttgcggtt aaccccgcaa cccttttaca actacaacaa ttgttgccct 300

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<210> 10390

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H3

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catagtacac acatacggta cagaagtgag agaaacaatg ttcattggaac aaacgatgaa 180

cagcctgttt tggtcgtcgt aatctataaa aaaaaaaaaa attaaaataa tataaaatag 240

aaaata 246

<210> 10391

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H4

<400> 10391

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ccctggccag cgtgcggatg ctgccatggg ccaaggccaa catcaacccc accggccagg 180

cgctcatcgt ctccacggtg gctgggatgg cctacttcat cgccgccgac aagaagatcc 240

tgctcgctggc aaggcgccac tcgttcgagc aagcccctga gcacctcaag aacacctcct 300

tccagggcac cggccgtccc caccgggtct tcttcaggcc gtgagaccag accttcgtcc 360

agagctagct acctacctct tttttcagtt gccaatgcaa gcaccaaag cccaccgatg 420

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<210> 10392

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H7

<400> 10392

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaatta aaatatattaa aaaa 144

<210> 10393

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H9

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ttcagtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagcagg 240

catcttaoct ttatcacctc tgttcctcca acaatcatca gccctattac atcaattacc 300

tttgggtgcat ttattggcac aaaacatcag ggcacaacaa ctacaacaac tegtgtctagc 360  
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<210> 10394  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-A1  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-007-Q1-K1-A10  
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<210> 10396



<211> 411  
 <212> DNA  
 <213> Zea mays  
  
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 aggagtgcag catcttctcc ggcggcgacc agtactagct accagggtta aaaaaaaaaaag 180  
 agtgagtcgg cgcgacgtgc aaggcgcagc atgtgtactg tgcgcgtgca aatccagaat 240  
 gacgtagctc tgacgtgggc tcgcaatatt ctgcgctggt cgttacaata atgataataa 300  
 ctatgaggaa taaatatggg aatgttgcca gtgccagata gtactggcgc cggttcttcg 360  
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 <223> Clone ID: LIB3059-007-Q1-K1-A12  
  
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 cgacgacgcc acaccgggcc gagccgaaac cgagactgca tccttcttag cggcgcgccg 180  
 agatgagcgg catgagctc tcccatcgtc tccctcccgc cgcggcgggc gtggaccctt 240  
 actacgtgta tgcggcgcac ccggaccac agcggcaggg cgtgctcacg ctcttcgctc 300  
 cggtgctact tgatgacttg aatcctcgcg agatccacaa tcttttct 348

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-E8  
  
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tcccccttct cttcctgctg agcgccagcg ccggtgctct cagcgaactt gccccaccgg 180  
cccgcccttc ccgggcctta cctgattccc cgtcctccag cgctgggcgc tggctgtgct 240  
gcagcgt 247

<210> 10399

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E9

<400> 10399

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cctctgggtgc catctgatcg tcccgttggt gatgttccgg ccataccatc ctggcagcag 180  
gcgtacatgg ttgacagcca aggcgcattt tctggctctc cgttcttgca gtcgaacctg 240  
ttggagaacc gttcgttagc acctatccgg cagggtgaatt tcttctgacg gagacaggat 300  
taacagattc atacgattct tgatacgtcc agcttctcgc tgtatacaca ctatcttgaa 360  
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ctttctag 428

<210> 10400

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F1

<400> 10400

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tgagatgaac ctttatatga tgcaccagat gcttgaatct tgcgacgagc gcaatgtgac 180  
tggacagagc atcaatgaga aggaccgctg ga 212

<210> 10401  
 <211> 190  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-F10  
  
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 ctattcgcac 190

<210> 10402  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-F11  
  
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 cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca aggagctgga 120  
 cggccgcaac atcacgtca acgaggccca gtcccgcggc ggccgtggag gcggcggcgg 180  
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 cggcggctac ggcggtgggc gcggctacgg tggcggcggc ggctacggtg gtggtggcgg 300  
 cggctacggc ggtggcaacc gtggcggcgg ctacggcaac tccgacggga actggaggaa 360  
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 tcc 423

<210> 10403  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-F12  
  
 <400> 10403

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 ttcaaaggcc cgttatgatg agattgccaa ggaagcccc cagtacctga atggggcttg 180  
 aaccaccaac ctggccaggc cacctggcac aaccagcgt tgccgcgagc gtcttacaac 240  
 aaccaattgc ccaattgcaa caacaatcct tgccacatct aacaatacaa gccatcacia 300  
 cgcaacagca accacagttc ctaccagcac tgagccacct agccatgggtg aaccctgccg 360  
 cctacttgca agagcagctg cttgcac 388

<210> 10404

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F3

<400> 10404

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 aaggcgtaaa aggacatctc aggagcgctt gaatggatgt actagaagaa cgcagcttaa 180  
 tgggactact atgaagaaaa atgtacagcg tgaccaatcg cttegaatgg attgaactca 240  
 tctgggtcat gcggaagacc aactccttcg agaagcacgt gtgagactac cagaaggcat 300  
 gcgacgtgaa cagact 316

<210> 10405

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-F5

<400> 10405

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 tcgtcgtcgg cgctgccgta caagaggacg cctcctacct ggctgaagac cgccgcctcc 180  
 gacgtggagg agatgatcac aaaggcagcg aagaaggac agatgccgtc gcagatccgc 240

gtcctgctcc gtgaccagca cggatatcccc cttgtcaaga gtgtcaccgg cagcaaaatc 300  
ctccgcaccc tcaaggccca tgggctggca cccgaaatcc cggaggacct gtacttcctc 360  
atcaagaagg cggtggcgat aaggaagcac cttgagagga acaggaagga caaagactct 420  
taa 423

<210> 10406  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-F6  
<400> 10406

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caactgtcta cactgaaccc tgctgcttat ttgcagcaac aactattacc attcagccag 120  
ctagctactg cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg 180  
aaccocgctg cttatttgca gcagcaaata ctactaccat ttaaccagct aggttgaaca 240  
aaacgggggt tctttttgaa cccacaaccg gtgctggcct tctaacaaca atttgggggt 300  
taccocggaa cccttttacc actaccacaa ttgggtggcct ttggccaact tgctttgacc 360  
gacccaacgg gcttctaaca acaacacatc attgggtggtg ccctttttta aaatgggttat 420  
taat 424

<210> 10407  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-F7  
<400> 10407

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gcctgctatg ttcccaggcc tgcgtctacg aaacgaaggg aagcacagat gggataccct 180  
tgaagacata tggaatggct tatgtgctaa agtagtctgc gacagcttgg gatatgggtg 240  
gaagaccgga ctgccttatg tgatgagaag tgatgcagaa gcaggtaaag ctctggagag 300

cttgaaagag tgggaagggg taaaagtcac ggatgatgtt ctcccattct tccagtcgct 360  
 caagctatcg aggactgcag ttactgttga cgattgtgtt aaagagcttg ctggaattgt 420  
 ccgtga 426

<210> 10408  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F8  
 <400> 10408

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 tccagccact cctccgacga ggtgtacctc ggccagcgcg acaccaaaga gtggacgctc 119

<210> 10409  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-F9  
 <400> 10409

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 tttttttttt gttaagcgcg tgcatactat actatcggtc gcgtcgcacc gatttgtata 120  
 ttttccggtt cctaccgagg aatgcttata tataatgaac accagaggac aagtattagt 180  
 gctcaaaaaa aaaaaaata tttaaacata aaagattaaa acaaaaaaat aaaaacaaga 240  
 aagttaacct tattaagg 258

<210> 10410  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-G1  
 <400> 10410

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caatgctcac aagctcctat agcttacctt ctttccgcat accttacatc aatgctagct 180  
ccagactgtg aaaaccagc tcttcaatcc tatacgctcc aacaagcaat cgcagtacgc 240  
tacatacctt tatcaccctt gttgtttcaa cactgcgga gtcctatctg tggggcaaca 300  
cattggtacg aaccatcacg gcacactaac tgcagcgact cgtgctacct gtgattaaca 360  
cgagttctct gtcaaacctt tctccctact ctacgaaca acactatctt ccattcaacc 420  
aactgtctac actg 434

<210> 10411  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G10

<400> 10411

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gtccgtgtct gtgcaggctg aagaccaggc ctttcccaaa ccgaagttgg ccaaagtacg 180  
cgccaccgtc ccggtgtgag tgttcagcag tgtggttgga ggccggcata ggattcctgt 240  
gtggattcac cctaggagag atgaggggat taaggcggac gagggccac gaacgcacgt 300  
gatgccaatg tgccacatg acatggacag aaaatgtcac tgcggtggac catgcatgcc 360  
caatttaagg agcatcagtt agaa 384

<210> 10412  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G11

<400> 10412

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ttcattgaac tctgcttctt atttgcaaca acaacaacta ccattcagcc agctacctgc 180  
tgctacccc cagcaatttc ttccattcaa ccaactagca gcattgaact ctctgttta 240

tttacagcag caacaactac taccattcag ccagctagct ggtgtgagcc ctgctacctt 300  
 cttgacacaa ccacagttgt tgccgttcta ccaacacggt gcgcctaacg ctggcaccct 360  
 cttacaactg caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtgtt 420  
 ctaccaac 428

<210> 10413

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G12

<400> 10413

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgtttcaa caatcgccag cctatctttg gtgcagtcac 300  
 tgggtacaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360  
 tagctctggc aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac 420  
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<210> 10414

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-G3

<400> 10414

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 aggetatcat ttccactcat tgcagaatg accttggctc tgcgactgcc aacacactag 180  
 cgggcgctcg tgcaggagca cggcagttag aggttactat taatgggtatt ggtgaaaggg 240  
 ctggaaatgc ttctttggag gaggttgtca tggcaattaa atgccgcaga gaactgttag 300



atggtctcta tactggaatc gattcccgcc atatcacttt gacgagcaaa atggtgcaag 360  
aacatagtgg acttcacgtg cagccacata aagctattgt tggtgccaat gcgttcgctc 420  
atgaaagtgg aatt 434

<210> 10415  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-E7  
<400> 10415

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acgctagcct ccgccgccgc cggcgacgaa tccggcggtt tgagtttctg ttgccagtgc 180  
agccatgtcc atgttcaaca ggatcttcgg gaagcccaag gagcaggcca actccagtgc 240  
cttggccaca ctgcacaagt taaatgagac tcttgatatg ctggagaaga aagagaaggt 300  
gctggacaaa aaagcagccg ctgagcttga gagagccaag gagttctcca aagctaagaa 360  
taaaagagcg gctatccaat ccttgaagag gaaaaaactt tatgaacaac aaattgagca 420  
actcggaat ttt 433

<210> 10416  
<211> 321  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-D11  
<400> 10416

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cctcgacgcg gtcgccaagc acaactccaa ggaggattgc tggctcatca tcggcggcaa 120  
ggtgtatgat gtgacgaagt ttttggtaga ccaccagga ggtgatgatg ttctgttgtc 180  
ctcaactggc aaggatgcga ctgatgattt cgaggatgtc ggtcacagca aactgccccg 240  
cgcgatgatg gatgagtact tggtaggtga aatcgacgcg tcgacgatcc cttccaggac 300  
gaagtatgtc cccccgaaa c 321

<210> 10417  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-006-Q1-K1-D12

<400> 10417

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ccctcaact caatcgtgtg gattcccatc ttattcgcag cgatcgtacc cagtctcgcg 180
aacagtcgaa tcggtagaga tgaacgacga atcgattcgg tgcaaggcgg ccgtggaagg 240
agcaccaagt gaggaagatc accgacaagg tgttcgaccg cctcacggag gacgcccaga 300
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atgacatcaa caagtacttg ccgngccgc accacg 396
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<210> 10418  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D4

<400> 10418

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tgcttctgag caagttgtag atgatttggt agcaaatgga aatatggttg accttgctgg 180
ttcaaagggtg gagatcaaga aagcagaacc aaagaaatcc ttcaatgcac cgtcaccacc 240
agtgcattgtt agaaatgcta tgtcagcata tgatagcggc tctagagacc acccttcagc 300
tgacaactat ggtggaatgg ccagtgetta tggaaactta cagggtggt 349
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<210> 10419  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D5

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gattacagat ctgaagaaga gattattgat tggaagctta ttagttattg taactccctt 180  
gaaaagcagg ttgtgcgggg attattgttt attgaataaa aagtcgcga tttgattcta 240  
ctgccatacc agtatatata attgtgaatt ggcttgact tgctgctggg ggggagaggt 300  
ggaaatagct agccctcctt gaccgcgcgc gataagaatg tcgcctcttg ttctggagat 360  
tattggagag ttgaatagtt cataatcagc ctacctaca tatattgcag aaaaagtact 420  
gatcat 426

<210> 10420

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D6

<400> 10420

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gcaatgcag ctggcatctt acctttatca cccttggttc tccaacaatc atcagcccta 120  
ttacagcagt taccttgggt gcatttattg gcacaaaaca tcagggcaca acaactacaa 180  
caacttggtg tagcaaacct tgctgcctac tctcagcaac agcagtttct tccattcaac 240  
caactagctg cattgaactc tgcttcttat ttgcaacaac aacaactacc attcagccag 300  
ctacctgttg cctaccccca gcaatttctt ccattcaacc aactggcagc attgaactc 359

<210> 10421

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D7

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accattttcc cgcaatgctc gcaagctcct atagcttccc ttcttcccc gtacctctca 180  
ccagcggtgt cttcggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240  
atcacagctg gcatcttacc tttatcaccc ttgttctctc aacaatcatc agccctatta 300  
catcagttac ctttggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360  
cttgtgctag caaaccttgc tgcctactct cagcaacagc agtttcttcc attcaaccaa 420  
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<210> 10422

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D8

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tccgtgtgaa gcagttgttc gagaagctcg gagcaagcta caaggccatt gagttggata 180  
aggaaagtga tggagctgag ctccagaatg ccctgaagga gtggactgga cagaggactg 240  
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<210> 10423

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-D9

<400> 10423

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cccgaggag agccgagatg gcgaggttgc gagaagtgag caccctgaag gggaggatgg 180  
agtcagtggg gaagcagaag ggtctggaca tcgagaccat ccagcagtcc tacaccgtgt 240  
gactggctga ccgacgacga cggggtttat agaggtttct tcttcttata ctatacaatc 300  
tgtactaggt agcaataagg atcaaggaag gaaccctat atattggctg gggttcgctg 360

gaaatgaatg atgggcatat ttatg

385

<210> 10424

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E11

<400> 10424

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gctgcaactg caacaagtgc tgcccttgaa ccaacttgct tcgacagacc caggagcaat 180

ctagcaacaa ccca 194

<210> 10425

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E12

<400> 10425

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cggcaacgtg ctgggggtcg cgaaatccct gacgtgccgg gcctgaaaat ggagcacacc 120

tctgcgaccg cagtgtctaa gcaagggcag gacaaga 157

<210> 10426

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-E2

<400> 10426

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gatgccattc gtgaattgga tggtagaat ggttgagggt ttgagctgtc aactaaagtt 180

ggtggtggcc gtggccgaga ccgtaacggt tctgatatga agtgctatga gtgtggtgaa 240

gctggccact ttgcacgtga atgccgctta cggattgggt caagaggctt gggtagtgga 300  
 aggcgtcaca tccgaagtc tagatatcgc agtcgcagtc gcaaccgcag cccaagatat 360  
 cgaaggagcc caagctatag cagaagcccg cgagatcggt ctctaggag gcga 414

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 <213> Zea mays  
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 atggtgtata tttgttggtc 140

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 <212> DNA  
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 caggggtctc cgcaaagtgt cttgtatcgg tgcattggcat cggctagggt tctcctatac 180  
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 caagatcggc aaggctggac aagagaccca cgatgcctnc acagagtttg acaggactga 300  
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<210> 10429  
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<223> Clone ID: LIB3059-006-Q1-K1-B2

<400> 10429

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ttcttcaacg gcatcaagaa ccaagccggg agcgggtgcg agggcaagaa cttctacacc 360  
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<210> 10430

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 10430

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gaactggcca taggagagca aagaggaagg ggaggccacg agggcgccag tagatatatt 180  
catcttcacg tcggcttgcg atatttttga attntctatt ccgtattgaa ggcgtcgatg 240  
gccttgctcg ccctaactcag caccctcctc gccgcgcgcca tctggtgcgc cgcttacctc 300  
gccgctgcca tctcctccgc cttctgattc ccactcccca ctccccaacc ctaacctccc 360  
ccctgtagca caccacacct ccagctttgt aggtcctact atacttgcaa cctctccgcg 420  
cgactcgctt cga 433

<210> 10431

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-006-Q1-K1-B5

<400> 10431

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caatcatgga cagttgaatg gctgaggttt gataacagtt acttcaagga tatcaaagag 180
aaacgagatc aggatcttct ggtcctacct acagatgctg ctttatttga agacccaaag 240
ttcaaggtct atgcggagaa atatgcagag gaccaagacg cattcttcag agactacgct 300
gaggctcatg ctaaaactgag cgaattgngt gcatagttcc aaccaccgca gggattctct 360
ttggatgatt agtgcggcac cagaaccaca g 391

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<210> 10432  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B7

<400> 10432

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gttgcataata gtgaggaaga agcttacagg ttgtactgtg actatgggca ccgcatgggc 180
tttagtggtc gaaaaggaaa gcagtactac ttactggaa ccaaaccat ccgtactaaa 240
gattattact gctcaaaaga aggcttgaag gatgatgaac agcttactga agcaaacttt 300
aataagccgg agaccagaac taattgcaaa gcgatgggtcc gttttagggt tgattctgaa 360
ggtcaatggc gagttattca aataattcct gaacacaatc atgagctagt tcgaccggaa 420
aaaatacact t 431

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<210> 10433  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B8

<400> 10433

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tcaaccaact gtctacactg aacctgctg cttatttgca gcaacaacta ttaccattta 240  
gccagctagc tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg 300  
cactgaaccc cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg 360  
cagcataccg tgcttacttc ttgacacagc aacagttgct gcctttctac cagcag 416

<210> 10434

<211> 426

<212> DNA

<213> Zea mays

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<400> 10434

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tgtagtgga attggtgctc tctaccctca gaaatcaatt ttctccgatt gtccatggct 180  
ttttgggtct agaattgtag atagagagga gattttctct ttgatagggt tgctgcttac 240  
agtggctgaa tgtatctcac cggcgattta ctgatttgct catgaacatt tgtaatcgcc 300  
agaaccttcc tggcgaccaa agtatgctgt caatatattg gacacctgaa gaactgcttg 360  
gagtctacac aggacctgat ctttaaatat ttggccaccg aatttttcta aaaccggatt 420  
acataa 426

<210> 10435

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C10

<400> 10435

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actgccaatg taaaggacac agctactgag tttgctacac tgtctttatc aaagaaggat 180

tctgttgttt caaatggtgc tgtgcttagc attggatgtc tcacatccgg tgagaaagca 240  
atgaacttat cagaatctgt ggatcaagct aatgaaatca caaaagcact tcctacgagt 300  
cagaacaata ctgcaccagt aattgctcaa gcagattgtg gagtagagat cagctctggg 360  
gtcatcatgc acgttgctgt gtctgcttca tgcaatggaa ctacagagaa a 411

<210> 10436

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C11

<400> 10436

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cattgctgtt gtccttggtg tagtaagctt ttaattctcg acaggctgag gatgatgatg 180  
accttgatct ttttggtgat gaaactgagg aggacaagaa ggcagctgat gagcgtgctg 240  
ccgctgccaa ggcctcttct aaaaagaaag aaagtggtaa atcctccgtc cttatggatg 300  
taaaaccatg ggacgatgag actgatatga agaagctgga ggaggctgtc cgcagtgtcc 360  
agatggaggg tctgacttgg ggagcatcaa agcttgtgcc tgttgatac ggcatcaaga 420  
agatgacta 429

<210> 10437

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C12

<400> 10437

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gtggacggag agcggcgacg tgggcaaggg cttcagatgc atgcgcatgg tgaacaacat 180  
acgactgaac ttcgacgcct tatacggcta caagggccac agcgggttgc tcgacggcac 240  
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gggcgacgag gacta

315

<210> 10438

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C3

<400> 10438

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gttcgatggc ggcgggccgtg ggggcggcgg cggcggccgt gggtttggcg gtggttagagg 180

cgggagaggg gacaggggag ggagaggtgg caggaccccc agaggcggcc gtggcggcgg 240

tggcaggggt ggccgcggcg gtggcatgaa gggcgggagc aaggccgtcg tgggtggcgca 300

caagcacgcc ggtgtcttca tctccaagtc caaggaggat gcgctctgca ccaagaacat 360

gggcccgga gagtcctgt acggagagaa acgtggctcc gttcagaatg aggatggaac 420

<210> 10439

<211> 414

<212> DNA

<213> Zea mays

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<400> 10439

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cgtgagtctg ttgttaactt tttcaaggag gctggctgac aggaagaaat tgagaaagct 120

tttgaagaaa aacctatgcc aacacctcag tctagaacag agtatcagcc taggactgag 180

tatcactctc gcaatgcaga cggctactgt caaataaaac aacctggctt tagctctgct 240

ccagcgggtg gacctgaatt tcttactct cagccacaac aatccacact tagtaacact 300

ccaaatcagc agcctgagtt tggctcatct cgatcatgga attcaggttt cggctgctct 360

caagcgcaat ctggatatgg tgcaccttaa cctgtacaga caccacagcc acag 414

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<211> 354

<212> DNA

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<223> Clone ID: LIB3059-006-Q1-K1-C6

<400> 10440

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tgcaccctat gtgacaccaa accagatact aaatgagact attgctgtaa atatgatcat 180

tcaagcgatc atgtcatcca cataatgatt caaatgaagc atgactcgga caatgacttc 240

gagatggagg acatcattga tgatatccat gatcacactt atgtactcac taatgcaagg 300

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<210> 10441

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-C7

<400> 10441

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catgctatgg agcttaaadc cgtttgcctc aaatttgctg ccgaaaacct gtcagctgtg 180

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tgggcgcagc tctctgacgg cgcgacacc agcgggcgca gggtgaggcc aagggtctga 360

gacgcaaacc ccggaagcac tgacctttgt aatcaaaagc tgttgtggtg taaatgggac 420

ggcttttct 429

<210> 10442

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B12

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 cctgatactg tctactggaga cattgtattc gtcctccagc agaaggatca ctccaaattc 360  
 aaaagaaagg gtgaagatct cttctatgag cacaccttgt ctctgaccga agcactatgg 420  
 gggttcca 428

<210> 10443  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-H8  
 <400> 10443

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 <211> 325  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-A1  
 <400> 10444

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gtgcgctcat cgcgccgtcc gcgtcctcgc tccgcccgcc gttccgtctt gccgctggtc 180  
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<210> 10445  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-A10  
<400> 10445

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gccttacgcc gaccaggggc ttctctaat cgatctgggtg tctgttctgt ggtcttttgg 180  
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ctcgctct 428

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-A12  
<400> 10446

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tctgaagatg ccttatctgc atcggaaaac acactttatg acataacttc tcgatacagc 360  
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<210> 10447  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aatcntmct cgtcgggaaga gggataatnn actcgagcct tcgcannnac ttctctttan 240  
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 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-006-Q1-K1-A5  
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320

<210> 10449

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A6

<400> 10449

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ctacttgagt tcctcatatc tgattacatg caagtttggc tatgctgaga acatattacc 240

acaatacatt cttaagaatg ctaccatata tattatcaat gcacgcactg atttgctaata 300

tctgaacaac a 311

<210> 10450

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A7

<400> 10450

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gacaacgcgg tgctgcgcgc ccgccacgcc gagctggccg gccgcctgca gtcgctgggc 180

ggcgctctcg aggggctcca aatggccggc gccgccgtcg acatcccga gatggtcacc 240

gacgacccca tgctccgcc ctggcagccg gccttcccc cgatgcagcc catcggttc 300

tgagaatctg agccttagcc ggcgggagag agccaatttc tgttcgcgtg cccgtggcta 360

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<212> DNA

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<223> Clone ID: LIB3059-006-Q1-K1-A8

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cgattgggggt cgcgtgtgcg ataggaagta ttgtgttggt tttgcaacgt gatagcttgt 180  
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acatggacaa gccaaagtaa aggaatatgc caagagctct ttgttgtctg atggaaacta 300  
caatacagac aagatcaatg gttcaaacc tgaatgactat gagaaatttg agaaagggat 360  
aatgcactat ggggtgtccac attatagaag gagatgccgc ataagagctc cttgctgcaa 420  
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<210> 10452

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B10

<400> 10452

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ggcctcgcct gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaca ggtcccgtg cttcggcttc 240  
gtcaccttct acacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
ctggacggac gcaacatcac cgtcaacgag gccagtcctc gcggcagccg tggaggcggc 360  
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<210> 10453

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B11

<400> 10453

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 gatgacatcg agaagatcaa ggccaagctt gaggtgccca acaaggctgt ctgaagatt 120  
 ggtcagcaca tgtcaggtgg tggctctggc ggctcgcagt cgggatctgg acctcaggg 180  
 ggcggtgacc aggcgccgga ggcagagtat gaagaggtta aaaagtgagg ctgcgggaag 240  
 ttcaagcgaa attgtagtga cctgtttaga agtagctact cttttttggg aacacagata 300  
 gtcagatgag atgtaaaacc tgtgttgtaa taatcgttgg atttgcccc acttagtttc 360  
 cttctgcggc gatggaggta acacgacatt tcattgcttt tggtgcatat gatgccttga 420  
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<210> 10454

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H7

<400> 10454

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 catgaccgtc ggcgggcgccc cgggggggcg gatcgtgatg gagctgtacg ccaacgaggt 120  
 gccaagacc gcggaagaact tccgcgcgct gtgcacgggc gagaagggcg tgggcaagtc 180  
 cggaagccg ctccactaca agggctccac cttccaccgc gtcaccccg agttcatgtg 240  
 ccagggcggc gacttcaccc gcggaacagg caccggcggc gagtccatct acggcgagaa 300  
 gttccccgac gagaagttcg tgcgaagca caccgcccc ggtgtgctct ccatggccaa 360  
 cgccggggcc aacaccaacg gctcccagtt cttcatctgc accgtcgcga ccccttggt 420  
 cgacggcaag cacgtcgtct tcggc 445

<210> 10455

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G4

<400> 10455

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aacgtcttat ggtactactc tcacatcaag gctgaatgga agctatggat accgtttttgc 120  
 cttcagtgtg ctccaagaag caactaaciaa ttctgaccag aactgggtca ttggaagtgg 180  
 aggcttttga aaggtctaca aggggggtgat g 211

<210> 10456  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-G5  
 <400> 10456

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 acgccgccgc cgcccaaaga aagacgtcaa ctccaggaga caagatagtg agaactgaag 120  
 agaaggatgg gcttcgagaa gcagatcctg agatccggca ccggcccaa gccgataaag 180  
 ggccagaagg tcaccgttca ctgcaccggc tacgggaagg atcgtgatct gtccaagaaa 240  
 ttttggagca ccaaggaccc tgtgcagcag ccattcagtt tcagcattgg tcagggttca 300  
 gtgatcaaag gatgggacga gggagttatg accatgcaag tgggtgaagt tgctcgtatc 360  
 cagtgcacgc ctgattatgc ttatggagcc ggcgggttcc cagcctgggg aattcaacca 420  
 aactcagtgc ttgtgttcga gat 443

<210> 10457  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-G9  
 <400> 10457

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 gagaatgtgg aggctcagcc tgttgcccga gcacctgctg ctggccaaca aacaaatcag 120  
 caggccgcat caccgcgtca gccagcagtt gcattgccag tgcagccatc acctgcctct 180  
 gcagggccta atgcaaatcc tttgaacctt tttcctcagg gtgttccaag tggtaggtcc 240  
 aacccagggtg ttgttccagg tgcaggatct ggtgctcttg atgccttgcg acagcttcca 300  
 cagtttcaag cactccttca gttagtccag gctaattctc aaatcttgca gccaatgctt 360

caagagctag gtaaacaaaa cccacaaatt ctgcggttga ttcaagaaaa tcaagctgag 420  
t 421

<210> 10458  
<211> 407  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-H10  
  
<400> 10458

atggaagctg cgggaagaag gaaggctctt ggaaattgtt gatccagaac tggaaaagta 60  
cccagaggag caaatgcttc gtttcattaa agtggcactg ctgtgtacgc aagccacgtc 120  
ccagcagagg ccttccatga agcaggctct taatatgcta tctaaccaaa cagaaattga 180  
tctgcaaaat gtagctccac caggtgtgct gaaagaacct cggcagcgta ccggtggctt 240  
tggggggttg atagcagaca cgtcctcaag ccaaagcact aaaggcaacc cagctgaatc 300  
atacagcaca cagaccaaca tgaacagctc tcagtttagc acaactgatg tatcaccacg 360  
gtgacgttgt cgactattgt ttgacgtctt cagaggtgtc tcgcgcc 407

<210> 10459  
<211> 418  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-H11  
  
<400> 10459

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gtcgatggag ttctggggtc tcgaggtcaa acctggatcc actgtcaagt gtgagcctgg 120  
acatggcttt atcctgcacg tttcccaggc tgccttggg gaatcaaaga aaagtgcacg 180  
tgccttaatg tatgtcaaag ttgatgacaa gaagcttgcc attggaacgc tctctatcga 240  
caaataccca cagatacaat tcgatttggg tttcaataaa gagtttgagc tgtcacacac 300  
atcgaaaact accagtgtat ttttctctgg ttacaagggt gagcagccaa ttgagggaga 360  
tgaaatggat cttgattctg aggatgaaga ggaggagcta aacattccag taatcaag 418

<210> 10460  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H12  
  
 <400> 10460  
  
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 ttttgctccc ttatgctcct tggatattct gcaagtgtg ctacggcgac cattttcccg 120  
 caatgctcac aagctcctat agcttccctt cttcccccg acctctcacc agcgggtgtct 180  
 tgggtatgtg aaaaccaat tcttcaacct tacaggatcc aacaggcaat cgcagctggc 240  
 atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca gcagttacct 300  
 ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360  
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact agctgcattg 420  
 aactc 425

<210> 10461  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H2  
  
 <400> 10461  
  
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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
 gcttcagtat gtgaaaacct agctcttcag ccctataggc tccaacaagc aatcgagca 240  
 agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcaa ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360  
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
 caactgtcta cactgaacct tgetgc 446

<210> 10462  
 <211> 408

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-005-Q1-K1-H4  
 <400> 10462

agaatgacga cctgcaggca aaggtatcgg ctgcttctga gaagattaag gaactctctt 60  
 cccagcttgc caatgcaaga gatggcacga tgaatggtaa agccaaggaa gaagataatg 120  
 agaagggcga caccgaaaag gatgacgaac ctgttggtgt agttgccaaa gtatggggaga 180  
 acagcaactt tgctgactac gattcatcta aggttaaaga gaacgatggc gactcgcaag 240  
 ttgatttgga atcaaacaag ggcgacgcaa gtgttgacag caacggcctt gctccaacta 300  
 agcagagcaa tggcaggaca tcaccaacta aacagcacca gcagcataag aagaagcttt 360  
 ctctgaagaa attcgggtgt ctgctgaaga gaanagcgaa attagcat 408

<210> 10463  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-H5  
 <400> 10463

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 ctgtgtctat tatggctata attgcaaata ggtatcaacg gaggagacct agacacatca 120  
 tagatgctaa cgaagttcaa gagagaaatg tcgagtgcag aaaacaaatg ctatgtaata 180  
 tgtaccaggg ttcaaagtgc tattgctatg acagtttgcg cctaactaag agatctttta 240  
 gtgacttgag tgccatctta cgggaaaaga gtggcctaca ggatacccta aatgtgtcgg 300  
 tagaagaaaa gcttacaatt tttctgctta tagtaggtca taacaccaaa aatgaggttg 360  
 atccgtagca cttaatgggt ggtcccttga accaatcagt cgacac 406

<210> 10464  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-G2

<400> 10464

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ctcaacgtga acccgagcgg gaaggtgaca tcctacgaca gcggcaggac ggcggacgac 120  
atcgtcgact tcatcaagaa gagcaaggag accgcaggcg ccgccaccac caccaccacc 180  
caggcgccac cggcatccga gaaggcagcc gccgccgagc ccgtcaagga cgagctgtga 240  
gcatccaagg tgtggacggc tgtggctgcg taagcatggg aggaaaacct ggcgctaacg 300  
tgctacaac gcctagtttt tgcgggacca tgaggagaga gagagagga cggagttaga 360  
gagagagggg atctgcgacg tgttttgctc tgcggcggca tgtctgtgta tccattgag 420  
gttatgtaca caattacacc gcggtcg 447

<210> 10465

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E9

<400> 10465

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actctgcaca ttttaagaac catgtttacc atggctgaaa aggggtgatc tctcagtact 120  
gaatttgctt ctgtaagtgg tttctgatag cgtgctagct gttactgcgc ctatgggttg 180  
ttcgtatggg gcccttcgt gccagaggcg cattgaaatg cgtcacactt tgtcattact 240  
ctggaccta accaggaag tcttgattgc 270

<210> 10466

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-F1

<400> 10466

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caatacaacc tcaaattaac ttgcctattc atcgattatg ttcaggaaat aatgtatcaa 120  
ttaattgaag gaagtaatag tagtggtcca tctagaactc attcgattcc tagttctaac 180

tatgaccact aacttttgcc ttgctagctg gctatgtaca agcctgcaac acattcttat 240  
gataccatca tgtcattaaa tgtcaagggc tgagtatccc cggacagcag ggcctcgact 300  
acgcagttcg taatcgtgac ccatcttctn ncgcgagatt atgcccctca ancacaagtt 360  
ttgttggtga agtgagagga gagattagag agaataaact ttgctta 407

<210> 10467

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F10

<400> 10467

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agcacatgta tcatgacatg tacatgaagg tcaaaggtaa cgccttcaag aacaagaggg 120  
tgcttatgga gagtatccac aagtccaagg ctgagaaggc cagagagaag acactttctg 180  
accagtttga ggccaagcgc gccaaagagca aggcgagccg tgagaggaag atcgctagga 240  
gggaggagag gttggccag ggtccacgag aaataacacc acctgtctca tccacagctc 300  
cagctactgg ggcaccgaag aaagcaaaga agtgaagtat tgaaataaag ctgtagcttt 360  
ctagtccagt actgcacttt cttttataag ctctagtcaa attttgagc gcctgaactg 420  
tttt 424

<210> 10468

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F11

<400> 10468

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ggtcgcgtgg cccttcagcc acccaaattg gaaagcccgc tgttcacatg gctagcgttg 120  
acttgaaagg aaaagcatac gatgtgttga gacagaattc ttccagcttt ttgttggaag 180  
atgtctacag aaaccaggc ccgctccagt ttgaaggacc aggtgccgat tcaaagccta 240  
tttcattgtg cgttgaggat caagactata tgggcagaat aaaaaagttg caggaatact 300



tggagaaggt gaagaggatt gtgaagcctg ggtgctcgca ggatgttctt aaagcggcgc 360  
 tgagtgccat gtcttctgtg ccggaacac tgaacatcat gac 403

<210> 10469  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-F12  
 <400> 10469

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 cctaaaaacc ctagcccccg aatcagatcc caccgcccgc cggaacgcgg aaccctgccc 120  
 acggccgcca tggagatgag cgatgcggag cggatgatct tcttcgagat ggcttgcaac 180  
 aactccgagg tcgcgtacga gcagaacccc aacgacgccg acaacttgac gcgatggggc 240  
 ggagcgctgc tggagctatc acagatgcgt aacggccccg acagcctcaa gtcctccaa 300  
 gatgcggaag ccaagctgga ggaggcactg caaattgatc ccaacaagtc tgatgcactc 360  
 tgggtgctcg gaaatgctca gacttctcat ggattcttca ctccagacac tgcaatggca 420  
 aatg 424

<210> 10470  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-005-Q1-K1-F2  
 <400> 10470

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 tcggcggcct cgctggggcc acggtcgacc actcccttca caacgccttc agcacctacg 180  
 gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240  
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 aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360  
 gcggcgggcg tgggtacagt ggtggccgtg gaggcggcgg ctacagcggg ggccggcgcc 420

gtgatggcgg tggcggctac ggcggtg 447

<210> 10471  
<211> 303  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-F4  
  
<400> 10471

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caaaccatcg caacgcatca gcaacaacaa ttgctaccaa cactggggcca cctagccatg 120  
gtgaaccctt gcgactactt gcaacagcag ttgcttgcac cataccact tgctctggca 180  
tacgtaattg caaaccatcc acacaaacag ctgcaacagt ttctggcagc gctcagtcaa 240  
ctagccatgg tgaaccctgc cgactaccta catcagcatc aactgcttgt atttagcccg 300  
ctc 303

<210> 10472  
<211> 436  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-005-Q1-K1-F5  
  
<400> 10472

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aaaaccctag cgagtcgca tccatcatgg cgatgtccat ctctgctggc ggcgactccg 120  
gtgcgctcat cgcgccgtcc gcgtcctcgc tccgcccgcc gttccgtctt gccgctggtc 180  
ccaagggcca tttttgtact tttcctcatg gagcatctag caatcacagc cggctatgtg 240  
ttgaacatca aaggtgttct cgcagctcca ccagaaacta tgctctttct aggaaggatt 300  
tttctcctat aactcaagat gtggaaggct tccttcacaa tgttggttaac atgggttttc 360  
ttgaccgtct gaaattagcg tggaagataa tgttttctgc accaaccaca aaggatacct 420  
ccaatgcaaa catcgc 436

<210> 10473  
<211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-005-Q1-K1-F6  
  
 <400> 10473  
  
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 cccccgtccg tgggtgccgt agctataggt catcattgct gtcgtcgtcg tcgtcttagt 180  
 tcctcttgca ttgcgtgtgc gtactctgct ccaatcatcc ccgcccgtg ttgtcaagca 240  
 atttctggtc ctcttgcttg ctttctctag gagatgctgt tcatttcgat ctcttggegc 300  
 aatttgatct ttcgcttggt gtaattaggt cattagttaa atcataagag actcgtgttc 360  
 atggtctntc tcacaacctt aaaaaaaaaat gtaaaatgga aaaaccacaa a 411

<210> 10474  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-F7  
  
 <400> 10474  
  
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 tccccgatga gaaaaccgct gctgtgaaca aagccatcag gatcatcgag gaaggcaagt 180  
 gaagtgatgc accaccacct tgttactggc aggattgaat cctgatgaaa gctccatata 240  
 tatccgtgta tcgtctagga gaagtttata tccgtgtgct ttgctgacac tcgagggagg 300  
 agaactaata tctgcacttt attgtacctt aatgatagc catgttttta t 351

<210> 10475  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-F8  
  
 <400> 10475

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gcatagaagc agcttatcac tgatccgtag gatgatccat cgtcgaccag ttggtgcaca 120  
tccccgatga gaactcacgg tgctgtgacc atagccatca tgatcatcga tgaaggcgac 180  
gcgaagtgat gcaccgatac cgttttactg gcatgatcga atgctggcaa tgctgcatat 240  
ctatccgtgt atcaactggg aggaactgat ctgccgggtgc ttgcccgaca cctcggggcca 300  
gaaaagctgt agtcgcacat tattctgccc taaatgctgt ccatggcggtt attgacgtgg 360  
gtacagtagg gctg 374

<210> 10476

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-F9

<400> 10476

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ggccaaaact cccagggccg cgtcgtcacc gccggctaag atgacgccct cgggagctga 120  
tcaccaccag catgccgcta acgcctccgc cttcagggt gctcagctct cttctgttgc 180  
tgctgcgcac cacggttcct cctctacagg gaagaatcct gtggaaagtg tctcagttga 240  
gtttgaggcc aagtcagctc gtgatgggtgc atggaggtgc gggttcgttt ttctggattt 300  
ggggcagagg aggatgaatg gatcaat 327

<210> 10477

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-G1

<400> 10477

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ccctcttctt catcccgctc ctagcagccg atcccaactc ccgatcttcg tttcctttga 180  
ggtatgactc tgtttttagcc tgttggggta tataatcaat ttgggtgctg gtcctttttt 240

ttaagcggtt ctgatagaga tgacggaggt gaaaaaatac tccagcataa ttgggttcctt 300  
gcttatggag tatttgttaa ttttgtacta tctaagcatc gaattccagg ctgtaacttt 360  
tgctgcatcg ggcaaagtgt tttgatttgc tcgatagaac tgtcagttta ggaaccacta 420  
ngcgtcgtta catactgtac gctcg 445

<210> 10478

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D2

<400> 10478

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cctccgttct atatgccgcc tccgttctat ctgccgccgc agcagcagcc gcagccatgg 180  
caatacccca ctcaaccacc gcagctaagc ccgtgccagc agttcggatc ctgcggcgctc 240  
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ccggcgggcga cgccctacgg ctgccacag tgccaggcgc tgcagcagca gtgctgccac 360  
cagatcaggc aggtggagcc gctgcaccgg taccaggcga catacgggtg ggtcctgcag 420  
tcctttctgc agcagcag 438

<210> 10479

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D5

<400> 10479

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gctgcgtgag gcgtacaaga agaagaagct gctcccgtc gacctccgcc ccaagaagac 180  
ccgcgccatc cgcaggcgcc tcaccaagca ccagctctcc ttgaagaccg agagggaaaa 240  
gaagcgtgag aagtatttcc ccatgaggaa gtacgtatc aaggcctaga tcagtgaaag 300

aacatttatc ctgtcaagtt ttgctcagaa gttacttgaa tttgagacaa atctatctcc 360  
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<210> 10480  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-005-Q1-K1-D6  
  
<400> 10480

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ggaaactgag agctggaggt ggtttttgac cacagtaagg tctcttcctc agtccactga 240  
acctgaaact taccagatga ttcaggatga aatggtcagt gccatgcgtg atgataggag 300  
cttgggttgt tctgaactta gcagatggct aacaatggca canataatgg cctncagctn 360  
tggcgagaag agtctttctt tggagcactg gcagatgggtg aaggagcttg agaggcttag 420  
aaagcagagg atgcaatgag 440

<210> 10481  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-005-Q1-K1-D7  
  
<400> 10481

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gcggggccct gccgcttcga cccgacccag gtcgcgcgtc gcgtggccaa cttcaccgcc 240  
gtgccggcgc gcgacgaggc ccagatccgc gcggcgctcg tccgccgcgc gccctcgcg 300  
gtggggctca acgcggcggt catgcagacg tacgtgggcg gngtgcgtg cctctcctc 360

tgccccgcgcg catgggtcaa ccacggcgtg ctctcgtcg gctacggcgc gcgcg 415

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D8

<400> 10482

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aaccacttg ctatggcgaa cgtaactgga taccagcaac aacaacagat gaaacagttc 120  
atgccagtgc tcagacaact agccatgggtg aaccctgacg tctacctaca actactttca 180  
tctagccgcg tcgcggtggg caatgcacct acgtacctac aacaacagct gctgcaacaa 240  
attgtaccag ctctgactca gctagctgcg gcaaaccctg ctgcctactt acaacagttg 300  
cttgcatcca accaactggc tgagtcaaac tctgctgctg acctacaaca gcgacaacag 360  
ttacttaatc cattggcagt ggctaaccga ttggtcgcta ccttcctgca gcagcaacaa 420  
caattgctgc catacaacc 439

<210> 10483

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D9

<400> 10483

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ttggatgggc ttccaggctg gcaaggcccg cagaaactac aagggtgttct accccaccat 180  
gtacgccatc gactcggaga acaaggacgc caagctcttc aactgcgtgc agagggggca 240  
ccagaactct ctagagtgga tgcccgtttt cttcgtcata ctgctgctgg gcggtctgca 300  
gcacccgacc atcgccgccc gtctggggcg catctacatc gtcgcgaggt tcttctactt 360  
caaggggatac gccaccggcg ttccggacaa ccgtctcaag attggggggc t 411

<210> 10484  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-E10  
  
 <400> 10484  
  
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 ctcccagaca gcggtgaaga gcccttcgtc tctaagcttc ttcagccaag ttacgaaggt 120  
 tccaagcctg aagacctcca agaaactgga tgtctccgcc atggctgtat acaaggtgaa 180  
 gcttgctcggg cctgaagggtg aagagcacga gtttgatgct ccagacgacg cctacatcct 240  
 tgacgcagcc gagactgccg gtgtggagtt gccatactcg tgccgtgctg gggcttgctc 300  
 cacctgtgcc ggcaaaatcg agtctgggtc ggttgaccag tcggatgggt ccttccttga 360  
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<210> 10485  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-E11  
  
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 cttgacacaa ccacagttgt tgccgttcta ccagcacgct gcgcctaacg ctggcacctt 120  
 cttacaactg caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagcatt 180  
 ctaccaacaa cccatcattg gtgggtgccct ctttttagatt tcttatgagt tatagttcaa 240  
 taataaagtt ttttgtctga tgtttgtggc ttcccagaaa taagaaagta catttct 297

<210> 10486  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-E12  
  
 <400> 10486  
  
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ctccgtgctc gcggctgccca gcgccagcgc cgggacctcc tgcgtgcggg ggtgggcat 180  
cccgcaacaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
gccgcgcctc ccgtggcggg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
ggcgtactgc cgggtgcacgg cgctgagcat cctcatggac ggcgcgatcc cggcggggccc 360  
ggacgcgcag ctgga 375

<210> 10487

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E2

<400> 10487

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tgccccctgcg cggggctgca gggcttgtac ggcgctggcg ccggcctgac gacgatgatg 120  
ggcgccggcg ggctgtaccc ctacgcggag tacctgagggc agccgcagtg cagcccgctg 180  
gcgggcggcgc cctactacgc cgggtgtggg cagccgagcg ccatgttcca gccgctccgg 240  
caacagtgtc gccagcagca gatgaggatg atggacgtgc agtccgtcgc gcagcagctg 300  
cagatgatga tgcagcttga gcgtgccgct gccgccagca gcagcctgta cgagccagct 360  
ctgatgcagc agcagcagca gctgctggca gcccaaggtc tcaaccccat ggccatgatg 420  
atggcgcaga acatgccggc catgggt 447

<210> 10488

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-E5

<400> 10488

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caattttctc cattcaacca actgtctaca ctgaaccctg ctgcttattt gcagcaacaa 120

ctattaccat ttagccagct agctactgcc tactctcagc aacaacaact tcttccattt 180  
aaccaattgg ccgcactgaa ccccgctgct tatttgcagc agcaaatact actaccattt 240  
agccagctag ctgcagcaaa ccgtgcttcc ttcttgacac agcaacagtt gctgcctttc 300  
taccagcagt ttgoggctaa ccccgcaacc ctcttacaac tacaacaatt gttgcccttt 360  
gtccaacttg ctttgacaga cccagcggcc tntaccaac aacacatcat tgggtggtgcc 420  
ctcttttaga ttgcttatta gtt 443

<210> 10489

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E6

<400> 10489

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ttcatcacat tgttgactgc ataacgaaac acatcgtcgt cggatcggag atgatgagtt 120  
ccgtcgtcgt ggatgctgct gctaccagca gcagcgagaa gaagacgtcg tggccggagg 180  
tgggtgggcat gtccatcaag gaggcgacgg agactattct caaggacatg cccaacgcgt 240  
acatccagggt gctgcctggt gggtcgcccg tgacgctgga ccttcgcccc gaccgcgtcc 300  
gtatcttctg tgacaccgtc gccatgactc cgacagttgg gtgatacata ccaaattgcaa 360  
taaacaaacc ctactttata ttttatgttt ccagtttaata ataaaccagg ccttagcttc 420  
ttggttggtcc ttgcttggtt ggtg 444

<210> 10490

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E7

<400> 10490

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tccttatgct ccttgctctt tcttcatgtg ttcttaacgc gaccattttt cctccatact 120  
cacaagctcc tatagctgcc cttcttcttc cataccttcc ataactgacc gcttcagtat 180

gtgaaaaccc agcccttcaa ccctataggc tccaacaagc aatcgcaaca aacaacttac 240  
ctttatcaca cctgttcttt caacaatcgc cagccctatc tttggtgcag tcattggtac 300  
aaaccatcag ggcacaacag ctgcaacaac tcgtgctacc agtgatcagc taagtagctc 360  
tagcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 420  
cactg 425

<210> 10491

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D12

<400> 10491

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cttccccgga gagcgatggc gacggatctg acggctgctc atctgcgcgc gtacgacggt 120  
accgaccctt tcaagcgcac ctacgtcttc gtccggcgca tggctctacga cgtcacctac 180  
ggccgcggct tctacggccc cggcggcgcc tacgccgtct tcgcggacct ggaggccagc 240  
cgcgccctcg gcaagatgtc caatgacgaa gccgacgtct ccggggacct ctgcgggctc 300  
accgtcaatg agctcggcgt gctcgtcgac tgggagatca agttccaggc caagtacccc 360  
gtatgtttcc gactctccgt cgactcctga actcgtcggg ctagggctaa at 412

<210> 10492

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-B8

<400> 10492

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aagattcagc ggttccttag ccagcctttc catgttgctg aagttttcac gggatgcacct 120  
ggaaagtacg ttgagctgaa ggagagtgtt aaaagtttcc agggcgtttt ggatggcaag 180  
tatgatgacc ttccagaaca gtcattctac atggttggag gaatagagga ggtcatcgcc 240  
aaggcagaga agattgccaa ggaatctgca tcataagggg tctacaggca acgcanaatt 300

aactttttgga ggtcaacgtg atgtgctttt tatectgtgt tatcaagaac tta 353

<210> 10493  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B9

<400> 10493

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caccctcgcc aggcagcagc tcgggtacaa gccaccacc aacctcgatg tcggcctcaa 120  
gaagtctgct aagtgggtacc agtcctacta cggctacacc aggggatcca agaactcgcg 180  
acaatgatcc atgctaattc ttccttcttc ctttctcgct ttggcccggc cgcggccacc 240  
cactctcgga tcaaacattg acattcttat caggattttt ttggtggaaa tatgttatgt 300  
taagggtgtc ctttattaag tagagaaata ccggggacaa attctttgct tgggga 356

<210> 10494  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-005-Q1-K1-C1

<400> 10494

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tgcaacaaga attggtgcaa cagattgtac cagctctaaa ctaactagct gtggcaaacc 120  
ctggttgcta cttgcaacaa ctggtttcat ttaaccaact aactatgtga aacttgtggg 180  
tcctacacaa ggccacagta ctaaactatg gcagtggcta acccattggg cgctgccttn 240  
ctacagcagc aacaattgct gccatacaac cggttctctt tgatgaatcc tgtcttgtcg 300  
aggcagcaac ccatcgttgg aggtgccatc ttttagatta catatgagat gtactcgata 360  
atggtgccct cataccggca tgtgtttcct a 391

<210> 10495  
<211> 421  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C10

<400> 10495

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ggggtggtta tgatatgata ggctttggtg acattatctt ccctggattg cttgttggat 180

tcagctatag atttgacaga gcaaacagaa aggggtgtctt gagtggatat tgtctctggc 240

taattgtggg atatgcagtt ggccttttca ttacgtatct tgcgctgttc ttgatggacg 300

ggcatgggtca acctgcgttg ttgtaccttg tgccatgtac attggggggtt attggtattc 360

ttggttgggtt aagaggtgag ctttatgaat tatggaactt cggaaaaagt ccaggagaaa 420

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<210> 10496

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C2

<400> 10496

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gatgggatga gaagggctct ggcttggtact atgttgacag tgaggggtgcg cggctcgtgg 180

ggaacagggtt ctctgttggc tctgggtcac tgtatgctta tggatatctg gatgatgggtt 240

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caacattccg tgatgcagca agtgggtgggt gtgttagtgt ttaccacggt ggccctgatg 360

gttggacgaa gctttctggg gatgatgtcg gagagctgca ctaccactac taccgggttc 420

agaaaactcc ggttgaacag g 441

<210> 10497

<211> 442

<212> DNA

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<400> 10497

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atcgctgagc tatcactact ggagtacagt ctactctctt accctccatc actaatagct 180  
gcatcggtta ttttcttggc gagatttata ctacagccaa caaagtatcc ttggaattcc 240  
acactcgctc attacacaca gtacaaaccg tccaaactga gcgaatgtgt aaaggcattg 300  
catcgccctt gcagcggttg ttctggtagc aaccttccag caatcagaga aaagtacagt 360  
caacataagt acaaatttgt tgcaaagaag cagtgtccac cgcagatccc tactgaattc 420  
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<210> 10498

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C6

<400> 10498

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aagatcatcc tcgatcgga gacgcagagg tcccgcggct tcggcttcgt caccttctcc 180  
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aacatcaccg tcaacgaggc ccagtcccgc ggcgccgtg gaggcggcgg cggcggttac 300  
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tacggcggtg gcggcggcgg ctacgggtggc ggcggtggct acggtggtgg tgggtggcggc 420  
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<210> 10499

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C7

<400> 10499

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caggccgcag cccgcaggcg tctcacaggc tctccgccgt tccccaacgc gctttccccg 120

gcgccatggc caggctggcg ctagecgtcc tctgctgct ggccgtggcg gcatccgcgt 180

gggcccggcg cggcgcgagc cacctcgatc tgggcctggg ctctctctcc tccggggacc 240

gccggcggga atgccgcggc acggtggccg agtgccctga cgaggaggag ggccctggacc 300

tggggggcggg gcccgcgctc gtggagtccc accgccgcgc gctctacggc ggcgggcgcg 360

gcggcgggta catcagctac ggcgcgctgc ggcgggacaa cgtgccctgc taccgccgcg 420

gtgccagcta ctacaactgc c 441

<210> 10500

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C9

<400> 10500

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aaacttggga ataaccaaga agccaatgcc agatttcagc ttctatgacc gttttgctcc 120

aatttataca caacctcgac acctgccacc ttcaaagggt cttgatgctg atgtgacaga 180

cagtgttatt ggtgaaggat gtgttattaa aaactgcaag ataaaccatt ctgtagttgg 240

actccgatct tgcatatctg aagggtgctat catagaggac agtttactaa tgggtgcgga 300

ctactatgag acagaagctg ataaaaaact ccttgccgaa aaagggtggca ttcctattgg 360

tattgggaaa aattcatgca tcaggagagc aatcattgac aagaatgctc gaattgga 418

<210> 10501

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D10

<400> 10501

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ctccgtgctc gcggctgcc a gccagcgc cgggacctcc tgcgtgccgg ggtgggcat 180  
cccgcaaac ccgtccccga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
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ggcgtactgc cggcgcacgg cgtgagcat cctcatggac ggccgcatcc cggcggggccc 360  
ggacgcgcag ctggagggcc gtctagagga cctgccgggc tgcccgccgg aggtgcagag 420

<210> 10502

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-D11

<400> 10502

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accgaccctg tcaagcccat ctacgtctcc gtccggggca aggtctacga cgtcacctgc 180  
ggccgcgggt tctacggccc cggcggcgcc tacgccgtct tcgcggggccg cgaggccagc 240  
cgcgccctcg gcaagatgtc caaggacgaa gccgacgtct ccggggacct gtccgggctc 300  
accgacaagg agctcggcgt tctcgcgcac tgggagatca agttccaggc caagttcccc 360  
gtc 363

<210> 10503

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B7

<400> 10503

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aacagcaggt gcttgcaccc aaccacttg ctctggcaaa cgtagctgca taccaacaac 180  
aacaacaatt gcaacagttt ctgccagcgc tcagtcaact agccatgggtg aaccctgccg 240



cctacctaca acagcaacaa ctgctttcat ctagccctct cgttgtgggt aatgcaccta 300  
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 caaacctgc tgcctacttg caacagctgc ttccattcaa ccaactgact gtgtcgaact 420  
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<210> 10504  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-004-Q1-K1-H7  
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 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtcog tcgcgcagca 360  
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 agctctgatg cagca 435

<210> 10505  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-H9  
 <400> 10505

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg ggaaaaaata ataaagtaga 180  
 aaaaaaaag aatagaagga agaaaaataa attagtattg aattaaagat attaaaaaga 240  
 aaattaagag taaatgatta aaaaaagtga aggaatgaaa aa 282

<210> 10506  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A10  
  
 <400> 10506  
  
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 gctaggagca gaagtcctgg caagcctgtg gaagtttcca actggtgatt gcatccacta 180  
 ggtgcaatcc aatttttgcg atggtgacga aaccaagtaa aagatggtag ctcgacaagt 240  
 tatattttcc tcttatacctg cttaaatacta aggatgtcct ggaacatcac taacttagga 300  
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<210> 10507  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A12  
  
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 accgagccg gcgcattctgc cacctgcggt tcacctgcca cctacggtgc atctaccacc 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A5  
  
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taccattcag ccagctagtt gctgcctacc cccagcaatt tcttccattc aaccaactag  180
cagcattgaa ctctgctgct tatttacagc agcaacaact actaccattc agccagctag  240
ctgatgtgag ccctgctgcc ttcttgacac aacaacagtt gttgccgttc tacctgcacg  300
ctatgcctaa cgctggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg  360
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ttgcttatga gttata                                                    436

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<210>      10509
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<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
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<400>      10509

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acctacgacg agcagtgggc ggcccacaag agcagcagca agctgatggt gatcgacttc  180
tcggcgctcct ggtgcggggc ctgccgcttc atcgagccgg ccttcaagga gctggccttc  240
cgcttcaccg atgccatctt cgtcaagggt gacgtcgacg agctcgcgga ggtcgcaagg  300
acatggaagg tagaggcgat gccaacgttc gtgctgggtca aggatgggaa ggaggtaggc  360
cgtgtgattg gngctaagaa ggacgagctt gagaggaaga tcaggatggt cgtcacgt   418

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<210>      10510
<211>      375
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3059-005-Q1-K1-B12

<400>      10510

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ccttatagct ccttggctctt tctgcaagtg ctgctacggc gaccattttc ccacaatgct 120  
cacaagctcc tatagcttcc cttcttcccc cgtacctgtc accagcgggtg tcttctgtat 180  
gtgaaaaccc aattcttcaa ccctatagga tccaacaggc aatcgagct gccatcttac 240  
ctttatcacc cttgttcctc caacaatcat cagccctatt acagcagtta cctttggcgc 300  
atctattggc aaaaaacatc agggcacaac aactacaaca actcgtgcta gcaaaccttg 360  
ctgcctactc tcagc 375

<210> 10511  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-004-Q1-K1-H6

<400> 10511  
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acatggcccg catgcagcag ttggcagtg gacgaggcgc cgtgggtggc ttggtgctgc 180  
tgggcgccgc gacctcggag gcgccatca gctgcgggca ggtggcgctg gccatcgcg 240  
cctgcatctg ctacgcgcgc ggccagggct cggggccctc cgccggctgc tgcagcggcg 300  
tcaggagcct caacaacgcc gccgcacca ccgccgaccg ccgcgccgtc tgtaactgcc 360  
tcaagaacgc cgtcgccggc gtcagcgggc tcaacgccgg caacg 405

<210> 10512  
<211> 248  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-005-Q1-K1-B5

<400> 10512  
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 120  
gggggctttt aaaaggaaaa aagtttaaat aggaattaat ggaaagtaaa aaatttttaa 180  
tggggttaaa aaaaatcaat ttaagggccg ttgtttaaaa aagtttttaa tggaaaaaac 240

ttgggggtt

248

<210> 10513

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G12

<400> 10513

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atgtgaaatg gaaagtattg aactatagaa gagccagcat gcatttatga ggagtatgat 120

gacatctata atcttgcgtt gcttcaagta tcatcatgat ggattactgc tagtttgcta 180

ttgttgcaatt ta 192

<210> 10514

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G2

<400> 10514

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aggaggataa ggtgattgtg ttcgaaaagg gagatttggg atttgtgttc aacttccact 120

gcaacaacag ctattttgac taccgtattg gttgtcgaaa gcctgggggtg tataaagtgg 180

tcttggaactc cgacgctgga ctatttgggtg gatttagcag gatccatcac gcatccgagc 240

acttcatcgt cgactgttcg catgataata ggccatattc attcttgggt tatacaccaa 300

gctgaacatg tgtcggctat tctccagttg agtgatagcg gtgtac 346

<210> 10515

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G3

<400> 10515

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ctggaggcct tacgcgacgc atccgtggcg ggcacccccg ccccggtttc tgtcctcagc 120  
 tgcgtccggc accctcgatc acctgaagtc gccgcctttc gcgcgtccgg ctgcccggaa 180  
 ccccgctgc tatccatggg atcgattctg aggacggcag aagaggacca tggtcatgca 240  
 gacacagtcg accccgaacc cgcagtcact catgtttctat cctggaaagc cagttatgga 300  
 gattgggagc tctgatttcc ctaatgctcg gactgcatg acatccgcta tggctaagtc 360  
 gctttctgct attgatggag taaccagtgt attctctgga tctgattttg taactgttac 420  
 agaatcag 428

<210> 10516  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-G4  
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 ctgtgtccgg caccctggat cacctgaagt cgccaccttt cgcgcgctct gctgcccga 180  
 accctgccta ctatccatgg tatcgatcct gaggacggca taagaggacc ctgttcatcc 240  
 atacacactt gaccacgcac ccgctttcac tcatgttcta tcccggatag ccagctatgg 300  
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 ct 362

<210> 10517  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 10517

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 tattcttgga attcaagttc tttctgaagt aaatgaagct ttctgttagt acctactcta 180

tgtaatatat atttgacgct atgagtagtt ccatctttgc ttgtttttta tgaagttagt 240  
aatacctoca tatgtgccac atgtgtttga cattttgagc gttgttaagc tttttttctg 300  
aacaacata ggaggtctgc gtgccatttc attaacgccc cgtttgatc actggaattg 360  
aattccattc taataataat aatttaagca tatatcaatt aagctaattc attnttatac 420  
aaaatatatt tgtatact 438

<210> 10518

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G6

<400> 10518

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agaaccaatc aagtacaatg atggtctaga tcagtatcgc ctgtctccag cacagctgcg 180  
tgaagagttt gccaggcgca atgctgatgc agtatattgcc tttcagcttc gcaatcctgt 240  
acacaatggg catgctcttc ttatgaccga cacacgcaa cgtctccttg agatgggtta 300  
taaaaaccct gttcttctgc tccatccact gggaagattc aaaaagcag atgatgtgcc 360  
tcttagttgg agaatgaaac aacatga 387

<210> 10519

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-004-Q1-K1-G7

<400> 10519

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ccggcgggccg tccgcgagat gcagaaggat ctcgaggtec aggccaacgc cctcagcaag 120  
atccagaaaag acatcgccaa gaaccaccag gtccgcaagc agtacaccat ccaggtcggc 180  
gagaacgagc tcgtcctcaa ggagctggag ctgctcagcg atggggccaa cgtgtacaag 240

ctcatcggac cgggtgctggt caagcaggac ctgcgaggag ccaaggccaa cgtcaagaag 300  
 cgcacgcagt acatctccgc agagctgaag cggatggatc gggcgctcaa agacttggag 360  
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 caagc 425

<210> 10520  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-G8  
 <400> 10520

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 tccaagacct acccgagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180  
 aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240  
 aaatgccact ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct 300  
 tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360  
 tctgaggatg gatttgtgag ctttcttact tcagatggca acactaagga tgatcttaga 420  
 ctcccaactg atgagactct t 441

<210> 10521  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-G9  
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 ccaaacctgt gattggataa agaatcgctt gggtgacaag gttgcacgtg ttggcatatc 180  
 taatcgtctg aggtcatcgc catgtggttc agttgcagcg aagattggtt ggatagccta 240  
 tattgaaagg ctaatgagag cacagactat gtgtga 276



<210> 10522  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-004-Q1-K1-H1  
  
 <400> 10522  
  
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 ggtggaggcc aagaactcgc tggagaacta ctctacaac atgcgcaaca cgatcaagga 180  
 cgagaagatt gcgtccaagc tgccggccga tgacaagaag aagatcgagg acgccatcga 240  
 cgcgggccatc agctggctgg acgccaacca gctcgccgag gcggacgagt tcgaggacaa 300  
 gatgaaggag ctggagagcc tctgcaaccc catcatcgcc aagatgtacc agggcgcggg 360  
 tgaagacatg ggcggcgctg gcggcatgga cgaggacgcc cctgccggca gcgg 414

<210> 10523  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10523  
  
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 tttgccttgt tggacttggg agctgtggcg ttgccgaaat gggcgctccc taccacctnc 180  
 aatcaccaag aaccatcata accaaggtaa tgagcatgaa gcagctgcca ccggccctgc 240  
 cacagctgcc gtcgtcgccg gtggatcagt ccgaggtgac cgagcagaca tccgtgctgc 300  
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 cagcgcggtc gccttccaag gtaatcctgc 390

<210> 10524  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H12

<400> 10524

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aaccctacag gatccaacag gcaatcgcag ctggcatctt acctttatca cccttggtcc 180  
tccaacaatc atcagcccta ttacagcagt tacctttggt gcatttattg gcacaaaaca 240  
tcagggcaca tcaactacaa caacttgtgc tagcaaact tgctgcctac tctcagcaac 300  
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<210> 10525

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H3

<400> 10525

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gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attcaaccaa 180  
ctgtctacac tgaaccctgc tgcttatttg cagcaacaac tattaccatt cagccagcta 240  
gctactgcct actctcagca acaacaactt cttccattta accaattggc cgcactgaac 300  
cccgtgctt atttgcagca gcaaatacta ctaccattta gccagctagc tgcagcaaac 360  
cgtgcttctt tcttgacaca gcaacagttg ctgcctttct accagcagtt tgcggctaac 420  
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<210> 10526

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G11

<400> 10526

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 tctccaaca atcatcatcc ctattacagc agttaccttt ggtgcattta ttggcacaaa 180  
 acatcacggc tcaacatctc gtgctagcaa accttgctgc ctactctcag ctacaacagt 240  
 tacctttggt gcatttggtg gcacaaaaca tcagggcaca acatctacaa catctcgtgc 300  
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<210> 10527

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E3

<400> 10527

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 catggaatag cgaagcgcaa ggacaaggca ttggcggcaa cgatgatcgt tctggcagtg 180  
 gtcacgagca gcatcgccat tgcctcgaa atcatgagct ccatcagtga cgaagacaga 240  
 agagggtcatg tagctggtag acgataatgg ctcaaatacga atcaaattaa aatgtgggtt 300  
 ccaggccaac cgcgcgtgaa gattgctgct cgtgtcatgc gttcctactg ggtattcttt 360  
 ctttgcagcg agattgcttt ggcccctgag atgcaagttt agtctgtgcc ccctcatggg 420  
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<210> 10528

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E5

<400> 10528

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 gaaccccgct gattatttgc agcaacagat actactacca tgtagccagc tagctgcac 180

aagccgcgct tccttcttga cacaggagca gacgctgcct ttctaccagc aggttgcggc 240  
 taacctcacg accattttac aactactaca atagctgcc tgtgtccaac ttgctttgac 300  
 aaaccgagta gcctgctacc aacagcacat cattgggtggg gccctattga agactgctta 360  
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<210> 10529

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E8

<400> 10529

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360  
 ggagggccgt ctagaggacc tgccgggctg cccgcgggag gtgcagaggg g 411

<210> 10530

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E9

<400> 10530

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 agaggagcct cttcctgaag aaccgccttc tttctcaa at gaaatggcag tcgctcctga 180  
 ggagccagtg caagctccac ctgtgccact tcctcacgtg gatgagcctg tttgtgaacc 240  
 agtaaagaag acttatgctt ccactctaaa aaccgcaaag gctcctgcat tcccagtagc 300  
 ccagcaagta cctgtgagta agccttctca ccctacaaca gagtc 345

<210> 10531  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F1

<400> 10531

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gaattgttga gttgcggata tcattgtgct gctaagggtta atgtgacgat aaagttaatg 180  
tcaagagtta ccttccttcg cgtgtatgta ctctgattat tcaggctggt tttggctggg 240  
attaatctgg tcttatctga attccctatc tgaaatagag aattgttcgg tgtgcatttt 300  
gtgaccaata aatattttta atattttatt tttttattta atatttaaaa aagggcggtc 360  
gtttttgagg ttccaagctt tctttctctt tcatgctact tattagctct tttttagtgg 420  
tacttaaatt taatt 435

<210> 10532  
<211> 198  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F10

<400> 10532

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gagtatgatt ttcatgccac cttgcaactt gtcctacaac agagtgcgtg actccaatgg 180  
tctgggagat cctcttta 198

<210> 10533  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F11

<400> 10533

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cgttgacatt gaaaggaaaa gcatacgatg ctccgacaca aaaactgcat cagctttgtg 180  
ttggaagatg tctacagaaa cccatgcccc ctgcatgtag aaggaccagg tgccgattca 240  
aagcctatct cattgggcgt ttgagatcaa gactatatgg gcagaataaa aaagtattgca 300  
gaatacttgg agaaggtgaa aaggattgtg aagcctgtgt gctcgcagga tgttcttaaa 360  
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<210> 10534  
<211> 72  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-004-Q1-K1-F12  
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<210> 10535  
<211> 256  
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<213> Zea mays  
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<400> 10535

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atagctttct gcaaaaaaaaa aaaaaatata aaaacaaaat aacaaaataa aaaaaaaaaa 120  
acaaaaaata aaaaaaaaaa aaaaaagaaa caaaaaaaga taatatgcta aaaacacaaa 180  
aacataaaaa tagaagatgc aaaaaaaagg gggcccaaca aaagaaacgc aggattttaa 240  
ccagttcata cccaac 256

<210> 10536  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F5

<400> 10536

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ctaggaaaga gagtggctct gacattgtta ttgtagcaag gacagattct cgccaagcta 180  
tttctcatga tgaagcatta tggaggggtga aagcatttgc tgatgctgga gcagatgttc 240  
tattttattga tgcccttgct tcagtagaag agatgaaagc attttgtgcg gttgcaccag 300  
aagttccaaa gatggcaaac atgttagaag gtgggtggtaa aactcccata ttgagccctg 360  
ctgaacttga agaaattggt ttcaggcttg tagtatatcc tttatcctta gttgggggat 420  
caatgcgtgc aatgc 435

<210> 10537

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F6

<400> 10537

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gatgattctc actgccaaaaa gggacctata tacctatcaa ctcaaacta aactatggct 180  
attataacaa gtctaccggt tgaatatcca aagcctataa aaagctatcg ttggatctac 240  
tgacaactga caccgacata gtaggtaatt tctcaaacta aatgtaatac actaggtacc 300  
acattataga acatcaatgc actgcttggt gtcattctaga tctacggtca gagctgacga 360  
ctgatgactg aaacctgtga tcatgcatta cgt 393

<210> 10538

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-004-Q1-K1-F7

<400> 10538

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cgagatatgc ttgggggttaa aataaacatg acaacttgga cgctgtagac tgaccctaga 120

gcatctatca aaggaaccag acagcgatca tgagtttagg aggcaacgga gggcaataac 180

aaggactcat ctgacacaca aggattctgg gagttgagga gagtgcttca caacaagaga 240

tagagaaggc gtatcacaaa ttggctctgc gcctccaccc ggatacgaat cctgngaacg 300

agccaaagag aagtttcagt agttgcagaa ggttatatcc attcttgag atacagagaa 360

aagagcttta tatgatgaga ctgacatcag tgatgacgat acaatcttca ggagtacttn 420

cgaacaatgt acaaaaag 438

<210> 10539

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F8

<400> 10539

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atcgatgtcc ttgtacttcc atggactata acggcaccgg cgctggagac tgggcgtaga 120

gcatctatca aaggaaccag acagggatca tgagtgtagg aggcacgga gggcaatatc 180

atggactcat ttgactcaca aggattctgg aagttgagga gagtgcttga caacttgaga 240

tatagaaggc ttatcacaaat ttggctctgc tcttttatcc ttattctatt cctgtgaac 299

<210> 10540

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F9

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tccgccaagg ttttgagaag cgattcagtg tcttgacat atccaatatg atacttgcta 120

ttgggagtat gatttttcat gccaccttgc aacttgtcct acaacagagt gactagactc 180



caatggtctg ggagatcctt ctttatatgt atgtccttta ttgcgcggac tggcattaca 240  
 ggagcacaat gccaaccttc cttttcctat atggtgctgc ctttgctgta gttcatttct 300  
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<210> 10541

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 tactaagtaa taataacaca actcttgctg ttgctgcaca cttgtttttg acataagttg 180  
 ctttcctcct tggcttcttg catccaacag cagctgatca tctatgaggg atatctcaat 240  
 attgtacatg cacagcgaag cttccaaaca acagggcagc atcacaaggc aaaggatcac 300  
 aagaaaatat acacaaaaaa acactcacag ttcattcacat gccttaatgg ttttaagttat 360  
 tccaaagaat aggtctatag atcctngtcc cttgtatggg agaagagttc tttgatgatt 420  
 ggtggggag 428

<210> 10542

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C6

<400> 10542

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 tcaggtttct gtggtcaata ctcgcatct tgaagatatt ttcaacagat ataaagaacc 180  
 tgatgctgat atgataatgg tggaaggaat atctcaattt tgcaatgatc tgcaggttga 240  
 tcctcaggat attgtcatgc ttgtcatatc atggcacatg aaagccgcca caatgtgtga 300  
 atttactcgt caggaattca ttggtggact gcagtcaatt ggggtagatt caatcgagaa 360

gtttcgtgga aaattaccat cattacgagc tgagctaaaa gatgacaata aattccgtga 420  
tatatacaac ttgt 434

<210> 10543  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C7

<400> 10543

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gctttgctaa ctaaaacaag ggatgatcca atttcctcaa agttcttcaa ctggcaagag 180  
gttgaaaagt ataaaagctt tgggtggcgtt cgcattgaaa gtgatgtgta tgtgacggct 240  
caaggatgcc ggaacctcac aaactgcccg agagagacct gggagatcga ggctgtaatg 300  
gctggcgcac catggcctct gccggcttca agttctatgg tggtagcagc agagaatagc 360  
aatgacatat ctaaagcgtc gtaattttct ctatgctcaa tccatatccc gagttgaaac 420  
aaattcgacc tggattc 437

<210> 10544  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C8

<400> 10544

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cgacaagaag gaggccgcca agctcgccgc gcaggccgca gccctagctg ctgccccgct 180  
cccggtcgcg gggccccgcg cgtcccagga tgccggcacc ccccgcgccg ctagctcggc 240  
ctcggctatg gatgtggaga tgtctggtgc agggaaacagc aggtctaaga ccatcttgag 300  
gccacttggc agcattagca agaagaaggt gcagcttcat ttgaagatca agaaagacaa 360  
gagaaaagct aggaagaagg gaaagttttc ttttaagaag tagacgagtg tatgataaat 420

catgcaggtt t

431

<210> 10545

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C9

<400> 10545

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tgccatggac gcgttctttg cttcagcctg gaatgattcc ttccaggagg cttgccacaa 180

cggcatccgc atcatcgccc aacctggacg cagtatgaat gacgaggacg ccgtcgcgtg 240

ctgcaacaag tatttgtgtg cactcgggtct ctacggcatt aggcacttta tgcattatcc 300

gtcatgcccc atggct 316

<210> 10546

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D1

<400> 10546

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tttttttctt atattttctta ttcatttttt atattttttg tgatttgttt ttttttttat 180

ttttatttgt tttttatcat atattttttt gttgttattt atcatatttt atatatttta 240

tattttattt attttttttt tttttatttt atttttttta tttttatttt ttgtatat 300

atttttattt tcttttatat tatttttttt tattgttttt attttttttt tatttgtttt 360

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tttttttatt ttattttttt tt 442

<210> 10547

<211> 167

<212> DNA  
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 ctagctcatg ggatattgta cgctattact tcgaagagaa atcctagctc aagaagttgt 120  
 tcatagattc ttgtctgaga gtgtgctga caacagatgc tcgtact 167

<210> 10548  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-D2  
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 ggacacggag ggcattcctaa aggacctgca gcacgtgat ctttgagatc acgcagccgg 120  
 tctacgaccg taatgtggcc ggcaagttcg tctagcatgc cggaactcta g 171

<210> 10549  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-D4  
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 ggccagattg gcaatggcta tgccccagtt ctggactgcc acaccttaca cattgctgtc 120  
 aagttagctg aactcgttac caagattgat aggctatcct tctaggagct ggagaaggag 180  
 cccaaaattc taagaactgt gatgctggta tgggtga 216

<210> 10550  
 <211> 390  
 <212> DNA  
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 <223> Clone ID: LIB3059-004-Q1-K1-D6

<400> 10550

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tgccccagtt ctggactgcc acacctcaca cattgctgtc aagtttgctg agctcgttac 180  
caagattgat aggcgatccg gcaaggagct ggagaaggag cccaaatttc tcaagaacgg 240  
tgatgctggg atggtgaaga tggttccac taagcccatg gtggtggaga ctttttctca 300  
gtatcctcct cttggtcgat ttgctgtccg tgacatgagg caaacggtgg ctgtcggagt 360  
catcaagagt gtggagaaga aagaccccaa 390

<210> 10551

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D8

<400> 10551

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tcattattcc acaatgctca cttgtccta gtgccattat tccacagttc ctcccaccag 180  
ttacttcaat gggcttcgaa cacctagctg tgcaagccaa catgcaacaa caagcgcttg 240  
cggcgagcgt cttacaacaa ccaattgcc aattgcaaca acaatccttg ccacatctaa 300  
caatacaagc catcacaacg caacagcaac aacagttcct accagcactg agccacctag 360  
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<210> 10552

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E1

<400> 10552

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tgtcacactc tggccggcag caggccctgc agactgtgaa ctgccttgtt gctagtgggtg 180  
 gcacaaacat tgctgatgca ctgaagaaag ctgcaaaggt tattgaggac cgaagccatc 240  
 aaaatccagt atgcagcatc attctcttgt ctgatggcca agatacgtac aatattccct 300  
 caaatattag ggggtgcccgg ccagaataca gttcactagt tccatcctcc attctaaacc 360  
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<210> 10553

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E10

<400> 10553

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 gtccaaagag ctttgagag ttgaaggcaa agaaagggtgt cggcagggtca ggagaagatg 180  
 ccgtcgtcaa gggcttaggt tcttctcgta tgacttcaga aatagtttgg agcaaggagg 240  
 ctgtttggtt gaaaggccca aagcccctaa gtgccatact gaagagaaaa agagagccag 300  
 cttctgaaat ccccgctgcc cagcctggca tcacacagga agcagataac tacgccgcat 360  
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<210> 10554

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E11

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 ggtctataat ctttacgaag ttctaggctt taaccggctt gctttggcca tcacaacatg 180  
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241

<210> 10555  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C4

<400> 10555

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tcaaccaact caactcctcg ggcggcgcat atgacgacga cgaggatgac gagtaaagtt 180  
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cgctacctgt agtctttcaa catgcattt 269

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<211> 290  
<212> DNA  
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<223> Clone ID: LIB3059-004-Q1-K1-A10

<400> 10556

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agtcaggata tgggtggtcag acctagcctg tcttccacaa gatggccatg tccaccaaga 180  
actttgttct gaagctccta ttccagagct gctagcaata tttacagcat gccacctaca 240  
gatgcatatt ttctctttat gctgggttaca tctaaggcag gcacgcatct 290

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A11

<400> 10557

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taggaagatg aagggtttga agcagaagaa ggctcacctg atggagattc aggtcaatgg 180  
 tggtaccatt gctgacaagg tggactatgg ctacaaattc tttgagaaag aggtc 235

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-A12  
 <400> 10558

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 ctcgctcctct ccgcttctca ccgctccgtc ctgcgcgccg agggccgcac cgccgcgctc 180  
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 gtttacatgc tccaggacca ggaggctcat gctgcagaga tggagcgcac cttcattgcc 360  
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<210> 10559  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-A4  
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<210> 10560  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-004-Q1-K1-A7  
  
 <400> 10560  
  
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 tagaagatat gttcaattca tcgaagtggc ttgtcaaaca gagaaacaat cttctatgg 180  
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 ccgcacagcc acgccaacgc ctctacttg ccgatgtgcg gggcaaggcg gtcgatgcag 360  
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<210> 10561  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-004-Q1-K1-A8  
  
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 aacaccaaga agtatgccat acagagcttc tocaagagct tgtagatgt tgcagacaat 180  
 ttgtctcggg catcatctgt tgtcaaggca agtttctcaa agatagattc atctaacgat 240  
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 caacttgag aggtcttcaa gaagtttgga gttgaaaagt ttgatccttt gaatgagaag 360  
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<210> 10562  
 <211> 237

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-A9  
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 tgtgccgcgt ctccacgata ctgttcggca cgtgggagtt cgacccact gagatcgaga 180  
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<210> 10563  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-B2  
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<210> 10564  
 <211> 269  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-B5  
 <400> 10564  
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 ccaacttgct ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgccct 180  
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<210> 10565  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-004-Q1-K1-B7

<400> 10565

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aagtgttgct accgcaacca ttttcccaca atgtcacaa gtcctatag ctcccttct 180  
tccccatac ctctcaccag cgggtgtctt aatgtgtgaa aaccaattg ttcaacccta 240  
caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttg tctccaaca 300  
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acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc aacatcagtt 420  
tcttcattc aaccaactg 439

<210> 10566

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B9

<400> 10566

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<210> 10567

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C1

<400> 10567

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cagcatgaag atggatcatg ttctcgtcgt gtgcctggct ctgtcagctg ccagcgctc 120  
tgcaatgcag atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggctccgg 180  
cctgacgact atgatgg 197

<210> 10568

<211> 415

<212> DNA  
 <213> Zea mays  
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 ctcggcgctc gcgagaaaac gcttttggag gaggatgttg ctttgaagag gttcaaataca 180  
 tacaagaaca gtgtgaaaca ggtctccaag attgggaatg ttctcacttt agctgttgta 240  
 tttgggttgta gctacgagct tggtttggtg gcggcaagca tgaagtgaag gaaaacacag 300  
 tcattattcc gggaagtgat ccatacagct agactgtcat tctatcagct cgtgttttta 360  
 gcctgtctgt ctcttttatt ttgtcgtgca ccattgtataa aataaaaacta aacta 415

<210> 10569  
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 <212> DNA  
 <213> Zea mays  
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 atctacctcc aataatatct tactattcac caactatcaa tcattgaact atactttatc 180  
 atataccgca tctacaacta ctacca 206

<210> 10570  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-G12  
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 gactccctcc cctcctcgat ccgttcgggc ggccggccgg cctagcttca agtgccggga 180

tgggtgttcta cttcaaggcg cggcccgagg cgggcgacta taccatcttc atgggtcttg 240  
 acaagtacga gaacgaggac ctcacaaat acggcttccc cgaggacatc tggttccatg 300  
 tagataagat gtcctctgca catgtgtatg tgagattgat taaagggtcaa tcaatggatg 360  
 acatg 365

<210> 10571  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-G2  
 <400> 10571

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 cggcgacagg ggggtggtgta ccggcacctg acctacggcg agaacttcac atcggaggcc 180  
 tgggaggagg agcggcacca ccagaggaac caggcgctag cgcacatcga gcggcaccgt 240  
 ctgcgcggcg tcgtctctct cgcggggctc gccgacgtgt acgactgccg tctactggag 300  
 cagctcaggc ggcacatcag gacaaggagt gtgggcgcgt gggcagtggc gacagtatgg 360  
 gagcaggaaa agagggtggc cgttgaaagg cccgtcgtcg ttgcaacac caacaccacc 420  
 aacatcacca gcgcag 436

<210> 10572  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-G3  
 <400> 10572

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 ggccaagatg caaaagccgc acagggggca tcagagaaag cagtggacaa gttggcagcc 120  
 acataccaaa ggccagcatc ctcgtcgaga aagagccgag gctttcctct tttggtccaa 180  
 gccagagaga tgggaagtca gcggtgagga aagtgtccgg ggcaaccgtc gcgtgcatcc 240

cgctccgagt tgttttcagc aggatcaacg aggcgctgag cttctcagtt aatgagaatg 300  
ccctagctgg gtgtgggact gcttcccggc tgaggaatac ttggtagcta ggttttgctg 360  
tttgttgctt accgcttgct ttttttgtag ccatgccata atagcattgg taaatgttta 420  
gtgtggccta tcacttgag catggtaata ggtgatga 458

<210> 10573

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-003-Q1-K1-G4

<400> 10573

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gcaggtgaag aaactggatt actagtgtgg gctgcaaaat gacggcgaat caattgtgaa 120  
tgttgcctgg gtccattcaa ctcttcattc tccttacgac cacactatgt atggtcagaa 180  
ccttactgtt cagaatttct tcaattcatg agttcctgtt gctgtgcaag cagccttcca 240  
ctacaagtac gctgggagca agtacttgca gcctgcagct tatgacctgg ccgtttacat 300  
attga 305

<210> 10574

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G5

<400> 10574

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agacggggcg gcgcgacggc acggtgtcgc tggcgtccaa cacgggggctg ctgccgtcgc 180  
ccttcgcggg cttcgcgggc ctgctgcaga gcttctcgga ccgggggctg aacctgacgg 240  
acctcgtggc gctgtcgggg gcgcacacca tcggcgtggc aagctgctcc agcgtcaccc 300  
cgcgctgta ccaggggaac gccagcagcg tggacctgct gctggactcg gcctacgcgc 360  
ggacgctcat gtcgtcgtgc cccaaccctg ccggggcgtt ggccaccgtg gcgcttgacg 420

<210> 10575  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-G6  
  
 <400> 10575  
  
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 ttatgctcct tgggtcttct gcaagtgtg ctacgacgac cattttcccg caatgctcac 120  
 aagtcctat agcttctctt cttcccccat acctctcacc agcgttgtct tcagtatgtg 180  
 aaaacccaat ttttcaaccc tacaggatcc aacaggcaat cacagcaggc atcttacctt 240  
 tatcaccctt gttcctccaa caatcatcag ccctattaca tcaattacct ttggtgcatt 300  
 tattggcaca aaacatcagg gcacaacaac tacaacaact cgtgctagca aaccttgctg 360  
 cctacgctca gcaacagcag ttacctttgg tgcaattggt ggacacaaac atcagggcac 420  
 aacaactaca acaac 435

<210> 10576  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-G7  
  
 <400> 10576  
  
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 aaaactgtgg ccctgccggg gggaacacca ccttgacagg agagccgaaa cctcctccat 120  
 gcagggatct ggatgcctgc taggtttgct tcggagcatt acgagcacgc gcataacttg 180  
 gctcgtactg taagggtgtg aaactgcaca cagcggaggc tgtgttattt gtattctgaa 240  
 gctttcttgt gtttcgtcaa gaaagcttct ctaactttta tcctgcacta tcagataaac 300  
 ggtaaattga tagagaataa gatgttttcg agctcatggt tagtggcaaa cgctntatat 360  
 ttttggcaag ctgtgaagga gctgaaccag tgacaactcg aagaattcat tntgttgtat 420

taagtcttct tgtagccca tt

442

<210> 10577

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G8

<400> 10577

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ggatgtgtta ttaaaaactg caagataaac cattctgtag ttggactccg atcttgcata 180

tctgaagggtg ctatcataga ggacagttta ctaatgggtg cggactacta tgagacagaa 240

gctgattaaa aacttcttgc cgaaaaaggt ggcattccta ttggtattgg gaaaaattca 300

tgcatcaaga aagcaatcat tgacaagaat gcttcaattg 340

<210> 10578

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G9

<400> 10578

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gaaacaacat atacaaggaa gaagaaaaga cgaaaaaaca tcaagggcat gagcgggacg 120

gtagctggac ggccgcaaca tgaccgtcaa ctatggccca gtccagctgt cgctcgagga 180

ggcggcagag gcgggtacgg tggcggccgt ggacgcggcg gctacggcgg aggcgggagc 240

cgtgatggcg gtagcggcta cggcggaggc ggcggtacg gtggcggcgg ctgttacggg 300

ggtggtggcg gcgga 315

<210> 10579

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H10



<400> 10579

aggcgtcagc aaaccaaacc gctctcgagt cttcatccat tctctacgct catccgcagc 60

tctctagtct ccagctctag ctagccttag cctcgtccaa gggacgaagg ggccaccatg 120

agcgtggtga tcctggacgg ctccacgggtg cgcggcttcg tggcggacga ggcggccttc 180

gcgcgc 186

<210> 10580

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H4

<400> 10580

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ctttctgcaa gtgttgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct 120

tccctttcttc ccccatacct ctccaccagcg gtgtcttcaa tgtgtgaaaa cccaattggt 180

caaccctaca ggatccaaca ggcaatcgca acaggcatct taccattatc acccttggtc 240

ctccaacaac cgtcagccct attacagcag ttacctttgg tccatttggg ggacacaaac 300

atcagggcac aacaactacc acaacttggt ctagcaaacc ttgctgcata ctctcagcac 360

catcagtttc ttccattcaa ccaact 386

<210> 10581

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H7

<400> 10581

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ctactacatt catggtcagt gtgccatcat tatgtttgat gtcacttcta ggctgacata 120

caagaatggt ccgacatggc acagggacct gtgcagggtc tgtgagaaca tccccattgt 180

tctttgtggt aacaagggtg atgtcaagaa caggcaagtc aaggccaagc aagttacatt 240

ccaccggaag aagaacttgc agtactatga gatttctgcc aagagcaatt acaactttga 300

gatgcccttc ctttacctcg ctaggaagct ggcattggat cagaaccttc actttgttga 360  
aactgttgct ctgaaaccac caaaagtga gattgatat 399

<210> 10582  
<211> 270  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-003-Q1-K1-G10

<400> 10582

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tagccctcct tgcgcttctt gccctttttg tgagcgcgaac aaatgcgttc attattccac 120  
aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt acttcaatgg 180  
gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240  
tacaacaacc aattgcccaa ttgcaacaac 270

<210> 10583  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E6

<400> 10583

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cgagaagagg atgagcacca caacggcgctc gtcgctgaac cccaacgcgc cgctcttcat 180  
gccggcgggc taccggcagg tggaggactt ctgcgccgag tgggtgggagc tcgtcaaacac 240  
caccggctgg ttccgggacc actgcttccg gcagcgccag ctccacgagg ccgtctgcga 300  
cgacgtcgcc gcgctcctcc ccgacgacct cctcgacacc aacgacctct tctacgcgcc 360  
cgacgtcggt caccaccaac cagcgacggc gctgctgccc gggtagcatg tactcgacgt 420  
gctcgcgggc ctgag 435

<210> 10584  
<211> 432

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-E9  
 <400> 10584

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 acaatagtgt accaacaatg gcagccaaaa tattttgcct cttatgctc cttggtcttt 120  
 ctgcaagtgc tgctacggcg accattttcc cgcaatgctc acaagctcct atagcttccc 180  
 ttcttcccc gtacctctca ccagtgttgt cttcagtatg tgaaaaccca attcttcaac 240  
 cctacaggat ccaacatgca attgcatcag gcattctacc tttatcaccc ttgttccttc 300  
 aacaatcatc agccctatta cagcagttac ctttgggtgca tttattggca caaaacatca 360  
 gggcacaaca actcgtgcta gcaaaccctg ctgcctactc tcagcaacaa cagttacctt 420  
 tgggtgcattt gt 432

<210> 10585  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-F10  
 <400> 10585

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 ctacaggctg cccaaggctg aatacattcc agtgtataaa gaatatgatt cctttactgt 120  
 taagagaatc tctgatccac aggctttaa ggaaagtcca gcaagggctg ttgctagcga 180  
 taaggggtacc cctataccct caagtcttaa ccaggagaag gattcagtgg ctaagactat 240  
 accgaatagg gtgaaggaaa aaagtgatga cgaaggtaga cacttgcccc ctgaatttga 300  
 tggaaaagaa aacctggtgg tgaactcaaa aattgagaag tctgattctg gtgttgactg 360  
 gagtcgagaa agagaaagag aaagagagag atcaagaggg cggaacgtg atgctagggg 420  
 tagggat 427

<210> 10586  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F12

<400> 10586

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tgctactaca cccaagtatt caaaggcccg ttatgatgag attgtgaagg aagtctcttc 120  
ctacctgaag aaggttggat acaaccctga taagatccac ttcgttccaa tctctggttt 180  
tgaagggtgac aacatgattg agagggtccac caaccttgac tgggtacaagg gcccaaccct 240  
acttgaggct ctggacttga tcaatgagcc aaagaggcct tcagacaagc ccct 294

<210> 10587

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F2

<400> 10587

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ccactcttcc ataacattgc cctgcaacaa tacatcctac tttgttctca ggtgaggtaa 120  
ctttgaatac aatattattt tcatatgcag agttttatca ctagaatgtg aaattctgca 180  
atgccgtctt attatagttg ttaccaccct ctatcccgaa attataagtt gttttagctt 240  
ttctagggtta cataactttt gatatgcacc tagatataca atgtctacat acatagcaaa 300  
agttatgtgc cgaaaaatgc cgaaacaacc tataaattgg aacggaagga gtatttattg 360  
agaaaaatgag atctcagata agttaagatt acaatcgctt ctgtaactca agtact 416

<210> 10588

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F4

<400> 10588

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cgccgacgct gtcgacatcg agcgcgagtt cgtctgcgac gccctccctg tcgcgctcgt 120  
cggcataaac ggggatctca tgagccagta cattgaattc gtggccgacc gcctgctcat 180

ggcgctcggg tgcaagaaga tgtacaacgt gaccaatccc ttcgactgga tggagctcat 240  
ctcgctgatg gggaagacca acttcttcga gaagcgcgtg ggtgactacc agaaggcatc 300  
cgatcatgaac agcctcaacg gcggcggcgc tgccgaccac gtcttcagca tcgatgagga 360  
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<210> 10589

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F7

<400> 10589

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gtggaacgcc ggccgcgaga acctcgagtt caatttccgc tggaccgcc gcagcctcgc 180  
cgctcgcggc ctcttcggcc tcgctgtccc catcctcgtc tacaagggca tcgtccgcga 240  
attccatatg caggacgagg atgcaggccg gccatacagg aagttcctgt aagcggcgtc 300  
cagggccgca ggagacgtcg atccctcgac cggggctgcg aggaggggag tttccattca 360  
gtttgtgtcg gtattgtttt agtctgaatc tgatggagca gtttggaatg ctgaactatt 420  
gtgcctgata caaatgaata a 441

<210> 10590

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F8

<400> 10590

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ggatagatct cttgcccttg aactactttg gaatcaaact gtaaaaatga aaatatagt 180  
attgagccct tgtttgtatc agagaagcaa tatagctgac tagctcatcc attatcttac 240  
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atgtttgatg gaagtagacc agggactaaa ttgattgggg tcagctaaac cattctgtga 360  
atgaagggtgc atcatctgca gctgactgtg gaagtaatat gttgaccaa ctgagcaaca 420  
acattcttat t 431

<210> 10591  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-F9  
<400> 10591

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tcctcaatac tcacaagctc ctatagctgc ccttcttccc ccataccttc catcaatgac 180  
cgcttcagta tgtgaaaacc cagcccttca accctacagg ctccaacaag caatcgcaac 240  
aagcaactta cctttatcac ccctgttctt tcaacaatcg ccagccctat ctttgggtgca 300  
atcattggta caaaccatca gggcacaaca gctgcagcaa ctctgtctac cagtgatcag 360  
ccaagtagct ctggcaaaac ctttctccta ctctcagcaa caacaatttc ttccattcaa 420  
ccaactgtct acactga 437

<210> 10592  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-E5  
<400> 10592

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ctccgtctct tcttgagta cctcgtgagg gtcccatca ccacgcgcgt cagcgccccc 180  
gtcgccaggg ccctaagccg ctggaggctc gtcaagagct gatctgtgtt ttttctgtca 240  
caactgctct gggatatagg gtgcattcac atccaggaaa tccagagaga aaattcgccg 300  
cggtttgttt tttgtgtgca tggatgaaag ctgaaatccc tggagcgaag tctcatgttg 360

aactcccctt tgttcatcag tgagtgagca atcctaagag gagtgcacct acattgaatg 420  
agacattttt gggctcttc 438

<210> 10593  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D2

<400> 10593

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ccagcagcat cgagaagaaa acgtcgtggt cggagggtggt gggcatgtcc atcaaggagg 180  
cgaccgagac tattctcaag gacatgccca acgcgtacat gcagggtgctg cctgttgggt 240  
cgcccgtagc gctggacctt cgccccgacc gcgtacgtat cttcgatgac accgtcgtca 300  
tgactccgac agttgggtga tacataccaa atgcaattaa cagaccctac tttgtatttt 360  
atgtttccag ataataataa accatgcctt agctctttgg gtgtccttcc ttggctgggtg 420  
ctagcttcta agctactagt ac 442

<210> 10594  
<211> 204  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D3

<400> 10594

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aacacatcgt ttcctgatcg gagacgatgt gttacgacag cattgatgct gctgctagca 120  
gcagcatcga ctagaaaacg tcgtgcgcat aggtggcgagg catgtgcatc atggatagga 180  
cagagactat gtgttaagga catg 204

<210> 10595  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D4

<400> 10595

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cgtgttggcc ttaacgatcc tgatagacct attgctacgc tgcttttctg tggccaaca 120  
ggagtggta aaacagagct caccaaagct ctagcagcta gttattttgg atcggaatct 180  
gctatgctta ggtagacat gagcgagtat atggagaggc aactgtgag caagtcata 240  
ggctctctc cagggtacat tgggtatggt gaaactggta ctttgacaga agcagtcagg 300  
agaaaacct ttactgtggt attgttggt gagatagaga aagctcacc tgatattttc 360  
aacatccttc tccaaatatt ggaggatgga catttgacag actcacagg 409

<210> 10596

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D5

<400> 10596

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cagcaacaac tactaccatt cagccagcta gctgggtgta gccctgctac cttcttgata 180  
caaccacagt tggtgccgtt ctaccagcac gctgcgccta acgctggcac cctcttacia 240  
ctgcaacaat tgctgccatt caaccaactt gctttgacaa acccagcagc gttctacaa 300  
caacccatca ttgggtggtgc cctcttttag atttcttatg agttatagtt caataataaa 360  
gttttttgtc tg 372

<210> 10597

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D6

<400> 10597

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accagcggtg tcttcaatgt gtgaaaaccc aattgttcaa ccttacagga tccaacaggc 180  
aatcgcaaca ggcattctac cattatcacc cttgttcttc caacaaccgt cagccctatt 240  
acagcagtta cctttggtcc atttgggtggc acaaaacatc agggcacaac aactacaaca 300  
acttgtgcta gcaaaccctg ctgcatactc tcagcaacat cagtttcttc cattcaacca 360  
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tgctgectac cccagcaat 440

<210> 10598  
<211> 314  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-D7  
<400> 10598

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agactacaga gtgtgttagt tgttgtgcaa gtacgtgcag gcgatgtgct tatgagtcag 180  
tgtttagagt tattcatgtc tgcttgccgg actagccctg gtcctgctgg agcggagctg 240  
attgccccaa tgcgccagtt ctgcaagctg ctgagcacat taaagctgcc gccgactgat 300  
gacgctatgc tctc 314

<210> 10599  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-003-Q1-K1-D8  
<400> 10599

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cggcgggggc ggggaccgct gaacagtgaa cagcaccacc acgtttgtcg ctaactcgct 180  
attttcacaa cagcatcggg attggatttt tgagcgttgt ctctggcatt tttcatgtat 240

tttagggcta gtttggcaaa ttcatttttc caagtgattc cgattttcct aaggtaaaat 300  
gaactaattt ccttggaaaa atgaataaaa aaaatcacta gtaaaaatgg gattgccaaa 360  
ctgtccttta ttagacaatt tctgccgtac tctactcggt actgattaac tgac 414

<210> 10600

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D9

<400> 10600

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aacgtagctg cataccagca acaacaacag ctgcaacagt ttatgccagt gctcagtcaa 180  
ctagccatgg tgaaccctgc cgtctaccta caactacttt catctagccc gctcgcggtg 240  
ggcaaagtca cctacgtacc tacaacaaca gttgctgcaa caaattgtac cagctttgac 300  
tcaactagct gtggcaaacc ctgctggcta cttaca 336

<210> 10601

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E10

<400> 10601

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tctccgtgct cgcggctgcc agcgcacagc ccgggacctt ctgcgtgccg ggggtggcca 180  
tcccgcacaa cccgcttcgc agctgccgct ggtacgtgac cagccggacc tgcggcatcg 240  
ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300  
cggcgctactg ccggtgcacg gcgctgagca tctcatgga cggcgcgatc ccgccgggcc 360  
cggacgcgca gctggagggc cgtctagagg acctgccggg ctgccgcggg gaggtgc 417

<210> 10602  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-E11  
  
 <400> 10602  
  
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 gtggagggaa ggccatccga ccagctgggc aggagaaacc tcactgacag ccccgatattt 180  
 gacggccgtg gccctgacgc cagcctcgtg gctcgcgtac agggagtcgc taccagatg 240  
 ggcgacgtgc gccagttgta caccgtcgtg ttccaggaga ggccgctcaa gggctccacg 300  
 ctcgtcaccg aaggcgcgat gacagaaggg tcagacgagt gggcgatcta cggtggaact 360  
 ggagtgttcg cgatggcgag aggcgtcata aggagaacgt ttcttgccga cacgagcggc 420  
 gggaactccg ac 432

<210> 10603  
 <211> 172  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E12  
  
 <400> 10603  
  
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 tgctgccctt ccgcgggatc cctgaagggtg ccgtcgtctg caacgtctag caccacgtct 120  
 gtgaccgcgg agacttcgcc agcgcctgtg tggactacgc cattgagatc ag 172

<210> 10604  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E2  
  
 <400> 10604  
  
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gtgtggaatg ccaatcatgt gtgtaatctg ttggcaaata acaaacctct gttcctccc 119

<210> 10605

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E3

<400> 10605

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tgcagcggcg accgaagcgc cccccgggaa gaatactatt gttgtagggg tccaccagag 120

ccagcacatg ttctaccctc tccagtggca ctgcatcact tattcccgtc aggccagccg 180

tagcaatacc gcctagtcgt cgtaaccgcc aagcccaccg ccgtcttcgc cgtcggcctc 240

accggcccaa gcgcctcgga tgtgtgcccg tacgtggaag ccgatcttaa gcgcctccgc 300

ctgctcgttt ttgaaaaagc caaaggcctt tgcacacagg cgaacgacgc tttatttgaa 360

gcgctggaag gggacgcttg gaacgtcctt tgctaagctt tcaagaggca cggggc 416

<210> 10606

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-E4

<400> 10606

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gtcgggtggt accagtttct gttgtttttg tgccgcgcag gtctatgcaa acgtctcagg 120

agaggcgccg ctggatgagc ctatgatcga cgtgagttcg agtcagttct acggtgaagg 180

atacgatgac agtgataaga gaattcctga catgactata atcaacaagc agctaggttg 240

gaacccaaag acacctctca aggatctgct ggagacaaca ttgacgtacc agcacaagac 300

atacaaagaa gctgtgaaga ggcaaatgtc gcaggcttca gcaacaagtt aagttggcgc 360

tggctgggga cggctcctcg tttagagccc tagtcgcagc agctgtttcg caagtcagaa 420

tacatatatc ccggtaatc 439

<210> 10607

<211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-D1  
  
 <400> 10607  
  
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 agggcccaga gcgggacagt tgccgtatag gactctcttg ccaggctttc aagatggacc 120  
 agatcaaggc tgacatgaat aacggcgtgc taagggtcac cgatctgaat agcaaagacg 180  
 aggaacacca tgacgtattc gagatcaaga tcgactatgg ggtgtgcatc ggatggggcc 240  
 tactaggtgt cctatttgca atccatatat gtccatatcc gtaatgcagt gcatattcat 300  
 atcggaaatg ccatgagc 318

<210> 10608  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-B11  
  
 <400> 10608  
  
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 ctggcaagag tcgtcattca agggaaagcc actctcatag ccgcagttcg tactccaggt 120  
 ctgtgtccag ggagcgcctca gcttgatctg cgagggtgtgt cgtcctaggt ggttataaga 180  
 tatgcgctgt atttgcatct atcagaactt gtgtacttcg tatattacga acttgagaac 240  
 tgtatggatg tgtgcattgt gccaaaaaaa aaataaataa tgaagtttaa aaaaaaaaaa 300  
 agcttatata tatag 315

<210> 10609  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-B12  
  
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tgagatgatg agtgccgtcg acgtggatgc tgctgctaac agctgcaatg tgcagaagac 120  
gtacaggacg caggtgggtg ctcatgctga taggggtggcg actgaaacta tgggcacgga 180  
catgcagcac gagtacatcc aggctctggc tgacattgcg cacgtgacgc tggatgttcg 240  
atgcaagggc atcagtgttg tacatgacac tgaagctatg ac 282

<210> 10610

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B3

<400> 10610

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ctggacacgc ttgcaaactt tgcaattctt ggtgaagggtg aagcgctccc ttcgcagcca 120  
acaacaaaac atccccgcca ccgtcccggc tgctcatgca tcgtctgcat ccaaccacca 180  
agtgggaagg gtccaaagca caagcagaca tgcacctgta acgtttgtat gacggttcgc 240  
cgtcgtttta ggacactcat gcttcgacgc gagaagaagg tgacaagaga ttcctctcgc 300  
aagaaagaga cgggccaat 319

<210> 10611

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B5

<400> 10611

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accaacaaca catcattggt ggtgccctct tttagattgc ttattagttg taattcaata 120  
ataaagtttt ttggatgatg tatgtggcca accagaaata agaagttaca tttccagatt 180  
c 181

<210> 10612

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B6

<400> 10612

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ctactgatgc cattggctac catgaacca tggatgcagt actgcatgaa gcaacagggg 180  
gttgccaact tgctagcgtg gccgaccctg atgctgcagc aactgttggc ctcaccgctt 240  
cagccgtgcc agatgccaat gatgatgcca ggtatgatgc caccgatgac aatgatgccg 300  
atgccgaata tgatgccatc gatgatggcg ccgactatga tgtcaccaat aacgatagct 360  
agtatgatgc caccgatgat gatgccaaac atggtttcac caatgatgat gccgagtatg 420  
atgccttcga cgatga 436

<210> 10613

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B7

<400> 10613

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aatacatatg cctgtaccta gctagaataa aaggattcat cagcagataa acattcagat 180  
gtaaacgaga agactagagt gtgaaattaa ccaggagcaa tatatagtga ttaaaccgat 240  
gcactcgagc ataatacaca tgagaagacc agatctatgt taacctataa taagaaa 297

<210> 10614

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B9

<400> 10614

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aatgttgaat atcgcttaca gagaggactt tacgttcggc ttatatcatt accagagtat 120

gcggatattt

130

<210> 10615  
<211> 417  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C1  
  
<400> 10615

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accttcttca tcagagttgg acatgagga gttttcattg acacgaatgg aagatagatt 180  
tataaaccca gcaattctgt atatacaggt cacagttggt aaggagtccg gcaagttggt 240  
tgtagaggaa taccgtttac cagaagtaa agcaaacacg ccactatatt ttgatttccc 300  
agatctacaa caggatgcgc gctgtgttat ctttagattg cttggtgacg tcactgcctt 360  
tgtcgacgac atttctgagc ttgagaactt aaacttgccg aatcttcctt tggcgctc 417

<210> 10616  
<211> 201  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C11  
  
<400> 10616

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ggccaccggc tgtttcagta gagattatcc ggcaatctct tattagaagt tgtgatagca 180  
tattcagaag cacctttatg c 201

<210> 10617  
<211> 237  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C2  
  
<400> 10617



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 ttgcagatgt aaaacattgt tgtgtaagct ctcatatata tatatacaca cttttgccct 120  
 gaggcaatga gctgtatgtc atgttttaag agtaaaatgt gatttttgag gggtttccat 180  
 ctaggaacat taacatttaa actgtatttt tttggcctat aaactttcac tggagat 237

<210> 10618

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C3

<400> 10618

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 acgacgtgag aaacggtgga tcggggacac acaagcacia tgagcttgcg agtgctggct 180  
 gaagaaacat aaggatgtca tggcccctgc tgttattgca aagggggagg acgtcatgtg 240  
 gacttctggt ctaatctttg gaaaatgaaa ggggattgtg gggcttgaaa caaatttaag 300  
 gacacttcat attcaattgc tgcctggttg cccgcccctg tcagtggacc acttcattga 360  
 gtcctgggc ttgcgcaact gtgctggatg cagatttt 398

<210> 10619

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C4

<400> 10619

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 gcgacaatth tccctcaatg ctcacaagct cctatagctt cccttcttcc ccatacctt 180  
 ccatcaatga tagcttcagt atgtgaaaac ccagctcttc aaccctatag gctccaacia 240  
 gcaatcgag caagcaacat acctttatca cccttgtttc aacaatcgcc agccctatct 300  
 ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360

gtgatcaacc aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt 420  
ccattcaacc aactgtctac attga 445

<210> 10620  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C6

<400> 10620

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ttcccgcaat gctcgcaagc tcctatagct tcccttcttc ccccgtaact ctcaccagcg 180  
gtgtcttcgg tatgtgaaaa cccaattctt caaccctaca ggatccaaca ggcaatcaca 240  
gctggcatct tacctttatc acccttggtc ctccaacaat catcagccct attacatcag 300  
ttacctttgg tgcatttatt ggacaaaaac atcagggcac aacaactaca acaacttggt 360  
ctagcaaacc ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactagct 420  
gcattgaact ctgggtc 437

<210> 10621  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C8

<400> 10621

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ctctccagct ctactcccag aaccggaagg tcttcttcgc ctccaggctg aagaggtacg 180  
gcgagggtgt caagacacac gtgctgggtt gccctgcgt gatcttggcg agcccgagg 240  
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aggagcgcgt gattggcgcg caggccctct tcttccacca gggcgactac cacctccgcc 360  
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tcgaggccgc cgtgg 435

<210> 10622  
<211> 195  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-C9  
  
<400> 10622

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acttctataa aaacttctgt ccaaacaccg aatgaaaatc catgatatag cttcttattc 180  
acataaagtg agaaa 195

<210> 10623  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-003-Q1-K1-B10  
  
<400> 10623

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agaatataaa gaaagcaata gaattccttt cggagaccaa taacttgta aagattgagg 120  
atatcttacc attcttccca gacttcgtat tgattgacga tttcaaagag gaaatatgca 180  
aatctctgaa ggactacaac agccagattg agcagctcaa gcaggagatg gatgatgcca 240  
cacgtggggc agataatatc agaagtgata ttggtgccct cgctcagaga tatacagtaa 300  
ttgaccgtga gcaggattgt ggggtttgcc ggcgcaaaat attgactgtt ggagggttgc 360  
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gtggacatgc ct 432

<210> 10624  
<211> 380  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-H3

<400> 10624

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tcagtttgct tcatgttgcg caggcttaga tctgaatgcc ggattcttcg tcttacggct 180

tgaatcgagc tgggaggctg tggatctgat cacgggaggt acaacatata cgcgtgtatg 240

acgagttgga tcggcaccgg atagtctctg accgcaagac tatgttgatg cgttgggctg 300

atctgccgcg ttgttctgct tcaggttcta gagctagcga aatcgcaagg ctattatggt 360

tccttttcgga gcgcgtctga 380

<210> 10625

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H4

<400> 10625

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gtgacaacat gattgagagg tccaccaacc ttgactggta caaaggccca accctgcttg 120

aggctcttga tcagatcacc gagcccaaga gaccctcaga caagcccctg cgtctcccc 180

tccaggatgt gtacaagatt ggtggtattg gaactgtgcc agttggctcg gtggagactg 240

gtgtcatcaa gcctgggatg gttgtcacct ttggtccaac tggcctgact actgaggatg 300

agtctgttga gatgcacca 319

<210> 10626

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H5

<400> 10626

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atcgagtgcg tggactagtt gaaccagttc atgcatgctc gcattgtggc cttcatggtc 120

gacaactgct ccacaactgg ttgttcggga tctaggaaat ggtctccacg cttggattac 180

atcttgaccc accagggctc tgtgactgct gacaagactg caccgatcaa ccaagacctc 240  
atcagcaact tcatgtgtga ccctgtgcac ggcgccatcg aagtctgcgc tcagctgagg 300  
cctaccgttg acatctcagt gaccgttgat gcagatttcg tgcgcccaga gcttcgacag 360  
tatttataag cgtgta 376

<210> 10627  
<211> 351  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-002-Q1-K2-H6

<400> 10627

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cacatgggag gggcgcgctc actgcgggct cgacgacgcc cgcaacaccg gtcgcctgct 120  
ggcacttctg atgcaccggg gcttcaagtt ctccatcacc aacttactgg tgtggcaacc 180  
tgccgacagt ccgcagtcaa ccgacgtcac ctgccatttc tccccggacc gctctacgga 240  
cccagtcgtc gttcagctcc agcaccagca gcagcagcac aagccgaagg aggcgctggg 300  
gtctcccgcg tcgcatgtga acccgtcgga cgccaacca cggggaggga a 351

<210> 10628  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H7

<400> 10628

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ggatgcgtgt gctgaggcgc cttctccgca agtatcgtga ggccaagaag attgacaagc 180  
acatgtatca tgacatgtac atgaaggta aaggtaacgc cttcaagaac aagaggggtgc 240  
ttatggagag tatccacaag tccaaggctg agaaggccag agagaagaca ctttctgacc 300  
agtttgaggc caagcgcgcc aagagcaagg cgagccgtga gaggaagatc gctaggaggg 360  
aggagagggt ggcccagggt ccacgagaaa taacaccacc tgtctcattc acagctccag 420

ctactggggc

430

<210> 10629

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H8

<400> 10629

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taaatacatg ccactcacat ggtgtcctc catcttccaa gtcaccaacg caaattgcac 120

caagaaatcc atcgagaggc cgtcgacagg ggaattaatg gcgtcgtcgt ctagcagcag 180

ccaccgcgcg ctcactctcg cagccgccgt cctgctctcc gtgctcgcgg ctgccagcgc 240

cagcgccggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgcg tcccagagctg 300

ccgctggtac gtgaccagcc ggacctgcgg catcggg 337

<210> 10630

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A1

<400> 10630

cccacgcgtc cgcggacgcg tgggggccac tgaagcgaag tcgaagagcc atgagtctga 60

ttcgttggct ttgagggagg agatcagatt actgactgat aacctggagt ctattataag 120

tgaagctctg tcacgt 136

<210> 10631

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A11

<400> 10631

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tcactctgct agtgttttga ctttcaatgc acctggatgc ttgtcgtact gaatgctgtt 120

gatcttttaa agctattgcc attttacat ctcgttttgg tattctagct ccagtgcac 180  
gtttgtatat catcatctcc tgcgtatgtg cacagagtag tcatttacct gaatcatcct 240  
tgtgtaccct ttggaactgc ataattgaac tgcgctattc tagatctgtc 290

<210> 10632

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A2

<400> 10632

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aagtgggtgt tctaatacga gagccgttcc ccagtctagc tcttgatgcc ctgtgcaagc 120  
agctccacga cggattaag gatgtgatgg agatgcagaa ctcggttcac tcgcgactag 180  
ttgccaagac tgctacggac cacaggggca gtaggcgca gaacaatggg tggcctagct 240  
ccaaaagaga aggagccaag attgattgag cacgcaaggc cggtcgggtc gttgtgaatt 300  
tatttgaaga tagcattgca agcaatctgt ggcaaccaga tatccatgaa cgaactggag 360  
aacttgtgga cccatttcc ttctgcaatg gtatgtacct gtcctatgta aaatgcactc 420  
gctactgctt ggatagctac t 441

<210> 10633

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A4

<400> 10633

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agttaccatt catgttcaac ccaatggcca tgacgattcc acccatgttc ttacagcaac 120  
cctttgttgg tgctgcattc tagatagaaa tatttgtgtt gtaccgaata atgagttgac 180  
atgccatcgc gtgtgactca ttattaacaa taaaacaagt ttcc 224

<210> 10634

<211> 413

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-A5  
  
 <400> 10634  
  
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 cgtttcttat ggcaaaatca tgaatggctt ggtgccatat ttcagcgtcc aagtgcacgc 120  
 caccctgctg ctgttctctc ccagccgga catgatcctg gaagggatgg ttgaaatgat 180  
 tgggaaggag tcaattcatg ccattgtatt aggggttttc tcagtggcaa ttatgtctga 240  
 agatattaag ttcaaattca aatggaaaag tgatggaagg aaatttgtga gcctcacaga 300  
 taaaaaacat gtgattgaaa gaggaacaat gataaagttt tctgtcaaaa ggggtgatac 360  
 agaaatgagt ngtcataatta ctggatcttt aatcccacct tacactggat gca 413

<210> 10635  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-A7  
  
 <400> 10635  
  
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 aattctcaat gatgactgcc ctgattgtga tgagtttctt gctgccgata ctttgaggagg 120  
 tgatgttctg gaggaaggta aaggccattt ggatacttat ggatcttgtg catccataaa 180  
 ggatcaaatt tcaaaaactgg gtaatcaaag tactggctgt gccatagggt gcacaccctc 240  
 aacttgcat aatagaaatt ccgagaagaa aagcataacg tctgtcaact tgattcctaa 300  
 agagagccac aagagggata aaaattcact gttgcaatgt gaagggatta taaaatcgga 360  
 aggtactatc ctt 373

<210> 10636  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-A8



<400> 10636

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cattgttggt gatgactgtg gttatgacta tgagtttctt gatatcaatg ctattgatga 120  
tgatgggtcat gatgaagggt acgaccttaa ggatccttat ctatatgctg cataatctaac 180  
tgttcagcag ttagcactgc ttattttaaaa agctgaatat gccatacact accaacactt 240  
tatgtgtgat actggagacc atgctactac tggcgtatct ggtgaccatt ggtttgaacc 300  
cgagagatac gcgatgtgta gactg 325

<210> 10637

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H12

<400> 10637

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caatggagca gcttggataa agaaatttta catgtgcaaa cgggcgctag taacagtgca 120  
tgcattccaa accaggtcct ttgagcaatc tgagtaactg tagttacaga gtacaatata 180  
tccaaagcac actatccttg aattacagag ctcaaaccac ctgaacttgt tattgtggac 240  
ttttttcatt tcatcgctgg ttctccctcc tgcgtgcgta gcgggtcctg tcattgtacc 300  
taggcctgtc tgcagccctc tgtggcacgg gctcgaccct tctctgcctc tcaggaggcc 360  
tctgaacaat ctaccggttg acaagcagtt cagctccgt 399

<210> 10638

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F8

<400> 10638

gccacgcgta cgcccacgcg tacgctctgg tcttcattgt tgacctcaag gcagactaga 60  
agaagatcaa ggctgtcgtc aagaagatgt atgacatcca ggcaaagaag gtcaacacct 120  
tgatcaggcc tgatgggaag aagaaggctt acgtgaagct gactcccgac tatgatgctc 180

ttgatgtggc caacaaaatc ggaatcatct aagtgtgca ttaggcatct gttgattact 240  
agctcaatct gttgtgtgct agttctatgt gaaaccagag ttttggagct atggatctca 300  
atcgttccat taccatgtgt tatgcacac 329

<210> 10639

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G1

<400> 10639

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aaagcagagg caccatcttc tggagagatt aaaaattacc gctttagatc tgatgtgcct 120  
tgtccacctt ctcatactgc ttaggaggt ccagcttcac tccttcctaa gcgcaaacc 180  
ctgactgaag aagagattga ggctattatg ctgggggggct ccatttgata tcacctcata 240  
tgaattggaa attctaggaa catcaataag attgtatacc cgaactta 288

<210> 10640

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-002-Q1-K2-G10

<400> 10640

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cgtgcccacc ggcaccgctc agtgctagcg cgcgctcatg gcgtcgcttg gccagctcct 120  
cctcgctgcc ggccctggcct tcctgggtgct gctgctgggt gccaggatc acgggctgtg 180  
agagcaagcg accggcggcg gccgggccgt tggagcagca gccgccgcg ctgctcctcc 240  
cgcgcgggag gctgtaatca tcagccggca ccagcattcg cagccgtcgg ccgcggcgat 300  
ggcggagagc aagcggctcc ccaccctcc gtccggggcg tccactaagt ggaactacga 360  
ggcgaatcac gagaagccgt cgtcgtcgga gtcgggctcg ggccgncgnc gnetcgggtg 420  
gtggtggtcc ccgtg 435

<210> 10641  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G11

<400> 10641

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gccggctcaa agagaggcat gcattgtatt ctttgatgaa gttgatgcaa ttggtggtgc 120  
tcgttttgat gatgggggtg gtggtgacaa tgagggtgcag cgtacaatgt tggaaatagt 180  
aaaccaactt gatggggttg atgcaagagg gaacatcaaa gttctcatgg ccactaatag 240  
gcctgatacc ttggatcctg cacttctgcg ccctggtcgc ttggacagaa aggtggaatt 300  
cgggctacct gacttggagg gccgtacca aattttcaag atccatacac gtaccatgaa 360  
ctgtgagcga gatattcgtt tcgagcttct ggcacggctc tgccccaact ctactggagc 420  
tgatataagg agcgtttgca caga 444

<210> 10642  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G12

<400> 10642

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agggcacacag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 120  
tggcaaacct ttctccctac tctccgcaac aacaatttct tccattcaac caactgtcta 180  
cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 240  
cctactctca acaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 300  
cttatttgca gcagcaaata ctactacat ttagccagct agctacagca agccgtgctt 360  
ccttcttgac acaacaacag ttgctgccgt tctaccagca gtttgcggtc aaccccgcaa 420  
ccctcttaca actac 435

<210> 10643  
<211> 263

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-G2  
  
 <400> 10643  
  
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 ggaaataacct cgaatccatc tggataagtg acacattcga tattttactg tagcatctat 120  
 atcatcacca accgtgtcta tacaatacat acagatctca tccctgatgt tcaagatagc 180  
 tactgaatcg cattctcaaa tattatgaac agattaataa tatcgctact tagatatgca 240  
 gtcacatgtc catgttctca tac 263

<210> 10644  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-002-Q1-K2-G5  
  
 <400> 10644  
  
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 cgtttgggca atctgaagat gtttagggat caacattacc tttgtgtacc tttgtggcct 120  
 atggttcgtg gatgcacagg gatcaatata agtacctttg tgcccatggg ttcgtggatc 180  
 actgtgcatg tgttcttccg cgtctttgtt gttattttgg ctccatctgt atgatttaac 240  
 aaaggaaggt tcattagatg ggccacattt acacactggt tatccacacg ggtccactga 300  
 tactcttccg tttgccacca tgggctctgg ttctcttgct gcaatgtcag tgtttgaatc 360  
 gaagtacaaa gaaggcctta ctagggagga gggaatacag attgtgtgcg aagcaatctg 420  
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<210> 10645  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 10645

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 aaaaataaga tggatgctc tagcatggat agcatcatgg accctggcga tggatacat 120  
 acggatgtta ttctgttgt tcaagatggc tacagccttg cattttcaga ttttctcagt 180  
 tctgatatac catgctaccc gtcaatgcaa tcagatcttc atgctggaat aagtgccaac 240  
 gactcagagg gtattaccgt tatggatgat cctatatatg ggtctctcgc tgatattggt 300  
 ttcattggaca tgtgggggca gccactcaa gactacgaca aattct 346

<210> 10646

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G8

<400> 10646

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 ttggaagtac ttggttccat ggatgatgga agatctgttt gctaggagag atgccagtgg 120  
 tgtttacata gttcatagta gtaagaaggt caatgcatat gatgtggacg atatggatat 180  
 gccattacat cggtagatca atgatccagt tgcccatgag actattcata ctggctctac 240  
 ctttcagatt actggtgtaa ccaacaactg atattttgat agagcacatg atgttcgaca 300  
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<210> 10647

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G9

<400> 10647

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 cagggagtga ttcttgaag cagtacatga ggagggcgac ttgtacaatc aactatggga 180  
 gcgagctacc tctagcccag ggaatcaatt ttggttaatc ctgcagaaat gttgcgcgtg 240  
 gatctcagtg ttttctgcag acgtggatgc cgtatggaaa gaactgatgc aaccgcattt 300

gagatctcag cagacttgag cagcatttat tggcgtcagt tgtgaaactt aaactgcagg 360  
agcatcttgt acataaataa aataagatgt 390

<210> 10648  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-H1  
  
<400> 10648

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aggacgtcgc aaccgcgcag accatcacgc gacctcatg atccgggtag gggctaaagc 180  
agaggcacca tgttctggag agattaaatg ttaccgattg agatctgatg agccttgtcc 240  
accttctcat actgctgtag gaggtccagc ttcactcctt cctaagcgca aaccctgac 300  
tgaagaagag attgaggcta ttatgctgga gggctccatt tgatatcacc tcatatgaat 360  
cggaattctt aggaacatca cttagattgt gtaccgggac ctattgactt tgacctctga 420  
aagagtgtta tt 432

<210> 10649  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-H10  
  
<400> 10649

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gctggttggtg tacaagacgc ggaagacatg aaacgagagt gcaagcagtt tgagctattc 180  
ccagcgaacc caaagttgcc accgtcggca gcatgttggtg ctgtgtggaa gagggcagat 240  
gttccatgcc tatgcaaata tgtaacaag gaagtagaga aggtatggtg catggagaag 300  
gttgtgtacg tcgccaaacta ttgtaagagg ccgtttcaac ctggctacaa gtgccggagt 360  
tatacagttc ctcttagtat gtaaaaagga gtggttgga catgtggtac tctctcctag 420

aactttaatt tgag

434

<210> 10650

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H11

<400> 10650

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cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct 120

cagcaacaac aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttatttg 180

cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca acaacaactt 240

cttccattta accaattggc cgcactgaac cccgctgctt atttgcagca gcaaatacta 300

ctaccattta gccagctagc tgcagcaagc cgtgcttctt tcttgacaca gcaacagttg 360

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<210> 10651

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F7

<400> 10651

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cggcgatctt ctcttctgcc gccaatggat ctctccgctg tccaggctgc cctctccgac 120

aagtcctact ccaccctcgc ctccctctgc gacgaacttc tcctccaggc cgcgtcccag 180

ggattcacca ccgacgaatg gccctactct gtccacctgc ttgcccacct ctacatcaat 240

gacctgaaca gcgcgcgggt cttctggaag tcgttgccgc aggaggtcaa ggacacgcgg 300

ccggagctcg ccgctgtctg gaggattggt cagtgcctct ggaaaagaga ttatgctggc 360

gtcaaca 367

<210> 10652

<211> 104  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E1  
  
 <400> 10652  
  
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<210> 10653  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E10  
  
 <400> 10653  
  
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 tcgacagcaa aaaagagaaa aaaagatgtg acatcctaga ggaggccttt gccatgatgg 180  
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 tcctgtatcc gttgtttccg cgcctgttgg tccgctgcgc acgccggatt tttgcatcga 360  
 gcacggagat ctacaacaaa aacatggagc tacgacgcga ctcccaaggt acaatcggtg 420  
 attatgttca aac 433

<210> 10654  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E12  
  
 <400> 10654  
  
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 accgcctccg ttctatatgc cgcctccgtt ctatctgccg ccgcagcagc agccgcagcc 180



atggcaatac cccactcaac caccgcagct aagcccgtgc cagcagttcg gatcctgcgg 240  
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 cagccccggc gcgacgcctt acggctcgcc acagtgccag gcgctgcagc agcagtgctg 360  
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<210> 10655

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E2

<400> 10655

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 caaccagcgt atagtgaagc ttatagctga gcttatgagg aaccatgaca gccctgaagc 180  
 gttggtgata ctgcctagtg ccttcgacct tctacttcgt gctaccgatg gaatgctcgt 240  
 cgatggtgaa gcttgtactt tgccacagct tgagcttctg gaagtgaccg ctcgggctgt 300  
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<210> 10656

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E4

<400> 10656

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 aacagctgct tgcattcaac ccacttgctt tggcaaactg agctgcatac caacaacaac 180  
 aacagttgca acagtttctg ccagcgtcga gtcaactagc catggtgaac cctatcgctt 240  
 acctacaaca gcaacaactt ctttcatcta gcccgtcgc tatgggcaat gcacctacat 300

acctgcaaca tcagttgttg caacaacagt tgctgcaaca tattgtacca gctcttactc 360  
agctagctg 369

<210> 10657  
<211> 386  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 10657

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ggcaatctcc tgcggtcggg tgacatcaga ggctatcaat caatggcccg catgtataca 180  
aggctggctg ccatgccaaa gaaagggttag atgtagaaca tgtgccaagc caagagccta 240  
tgtcagteca tatgttgtca ggtttgctgt gtgctgtctg tctgtgaact tggtggttct 300  
tgtttcctaa taagtcctaa ccattcatgt gtgtgtattc tgtattctgt atcccgatt 360  
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<211> 391  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-E7  
  
<400> 10658

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taagcagcag caagatgttc gacggcttca atctccgctt ccgccaccag agcgccaccc 180  
ttggtgcggc catgactttc tccatctacc tgcccccgtc cccggcgctc aaccttcccg 240  
tgctgtactg gctctcgggt ctcacctgca ccgacgagaa tttcatcata aagtcggcg 300  
cccagcgcgc cgccgctgcc cacggcatcg ccctcgtggc acctgacacc ttcccacgtg 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-E8  
  
 <400> 10659  
  
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 gctgcggcga ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg 240  
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 cggcggaccg gcaggccacc 320

<210> 10660  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 10660  
  
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 tatagcttcc ctttttcccc cataccttcc atcaattata gcttcagtat gtgaaaaccc 180  
 agctcttcaa ccatataggc ttcaacaagc aatcgcagca agcaacatac ctttatcgcc 240  
 cttgttgtgt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 300  
 ggcacaacag ctgcagcaac tcgtgctacc tggatcaacc aagtagctct ggcaaacctt 360  
 tctccctact ctccgcaaca ccaatttctt ccattcaacc aactgtctac actgaacc 418

<210> 10661  
 <211> 188  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-F1

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tcttgtgttc ctgttcaggg tcttcagcat gacataaatc gtttcagaag tctagtaata 180  
ttattatt 188

<210> 10662  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F10

<400> 10662  
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cgccggcggg ctgtaccctt acgcggagta cctgaggcag ccgcagtgca gcccgtggc 180  
ggcggcgccc tactacgccg ggtgtgggca gacgagcgcc atgtaccagc cgctccggca 240  
acagtgctgc cagcagcaga tgaggatgat ggacgtgcag tccgtcgcgc agcagctgca 300  
gatgatgatg cagcttgagc gtgccgctgc cgccagcagc agcctgtacg agccagctct 360  
gatgcagcag cagcagcagc tgttggcagc tcagggctct aaccccatgg ccatgatgat 420  
ggcccagaac atgcc 435

<210> 10663  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F12

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cgcgccatca aggtggctcg cagccggcg tacgaggaga tggtaggaa ctgcatgac 180  
caggatctct cctggaaggg cctgccaag aactgggaga acgtgctgct cagcctcggg 240

gtcgccggcg gcgagccagg ggttgaaggc gaggagatcg cgccgctcgc caaggagaac 300  
 gtggccgcgc cctgaagagt tcggcctgca gggcccctga tctcgcgctg ggtgcaaaga 360  
 tgttgggaca tcttcttata tatgctgatt cgtttatgtg atatggacaa gtatgtgtag 420  
 atgcttgctt gtgctagt 438

<210> 10664  
 <211> 302  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-F2  
 <400> 10664

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 cctacagcag caacaattgc tgccatacaa ccagttctct ttgatgaatc ctgtcttgct 180  
 gaggcagcaa cccatcgctg gaggtgccat cttttagatt acatatgaga tgtactcgat 240  
 aatgggtgcc tcataccgac gtgtgtttcc tagaaataat caatatattg attgagattt 300  
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<210> 10665  
 <211> 145  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-F5  
 <400> 10665

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<210> 10666  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-F6

<400> 10666

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ttgacctttc cgaggaggac ctgattgaga agtttgccac tgggtgtctcc atgggtgcct 180

ccctgtcact ggcgatctcg taccgaccc ttgctgctgt gcccacatg ttcacaaatg 240

ggtacaagaa tgtgcttgcg gttgctgtcg agacagacta ctgtaccca catgtgaca 300

agatcaagga gtaccttaag gacccaagca agtttg 336

<210> 10667

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D9

<400> 10667

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cttatgtctc ttggctcttc tgcaagtgtc gctaccgcaa ccattttccc acaatgtctc 120

caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc ttcagtatgt 180

gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240

ttatcacctt tggctcttca acaaccgtca gccctattac agcagttacc cttgggtgcat 300

ttgttggcac aaaacatcaa ggcacaacaa c 331

<210> 10668

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B5

<400> 10668

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aaaggaaaga caaaaacata taacaacaaa cacaagacaa ctaatactaa aaggcggcgt 120

cctgttttgc ggtgcccgagc tggtgtcacc ctcagctccg agaccttctg cctgccatgg 180

tggcccataa ttcaaataca cttcccgagc tttcacatgc tcgtgaccgg aaaaacc 237

<210> 10669  
 <211> 137  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-B6  
  
 <400> 10669  
  
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 tctcagtttc atcaatcacc atatacgaaa taatgtccat gctgatgtta accattgtta 120  
 aaatgccttt acctaac 137

<210> 10670  
 <211> 377  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-C1  
  
 <400> 10670  
  
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 agggccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacgggtgg ggccgtggag 180  
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<210> 10671  
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 <213> Zea mays  
  
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aagcaggggg cttcatccat atgggacgag taaatggaag tttaaacttg tcaagggcaa 180  
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 ccaatcctga tatcaatgtc gtggagctct gcgatgatga cgactttgtt gttgtagcat 300  
 gtgatggcat ttgggactgc atgtcaagcc aacagctggg ggattttatc cacgagcgta 360  
 taaacacgga gagcagcctg tctgccgtgt gcgaaagagt gctggacaga tgccctggctc 420  
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<210> 10672

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C3

<400> 10672

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 ttcgcgtccg cctcagcccg ccgcagggag aggtaagttc aggagacatc ttcgagaagc 180  
 tgaaatggct cctaaagctg ctctgccaa gaagggtgat gccaaagacc aggcttgaa 240  
 ggttgccaag gctgtgaagt ctggggcagc caagaagaag accaagaaga tccgcacgtc 300  
 tgtgacattt caccgcccc aacccctgaa gaaggctagg gaccccaagt acccacgaat 360  
 cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtacc cccttaccac 420  
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<210> 10673

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C7

<400> 10673

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 tgcattgaggc gtacaagaag aagaagctga tgacgctcga cctccgacac aggaagaccc 180



gagccatcct caggcgctc accaagcacc agctatgctt gaagaccgat agggaaaaga 240  
 agcgtgagaa gtatttacc atgaggaagt acgctatcaa ggcctagatc agtgaaagaa 300  
 cattcatgct gtcaagcttt gctcagaagg tacttgaatt tgagacaaat gtatctgcat 360  
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<210> 10674

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C8

<400> 10674

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 cgatccatcc tcatgcgcct caccaagcac cagctatgct tgctgaccga taggtaaaag 240  
 aagcatgaga agtatttacc catgaggaag tacgctatca aagcctagat cagtgaagaa 300  
 acattcatcc tgtccagctg tgctcagaag gtacttgaat ttgacacaaa tttatctgca 360  
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<210> 10675

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D12

<400> 10675

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<210> 10676

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D5

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 aaaaaaaaaa aaaaaataa ataaaataaa aaagacgaca agg 223

<210> 10677  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cccctgagtt tgccgaatc actgattacc aaggacctga ccatgggggt gttgaccagt 240  
 gaacctttga tgtgactgcc ccgcctgtgg ctctactgt tctgatggg ggtgctgttc 300  
 aagttccggt tc 312

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-D8

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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-H6  
  
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<210> 10680  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-H7  
  
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 tatacacaag tacaatccta ttgttttatc taccatggaa caatctcggt acaatatcat 240  
 tgttgaaact actgagcttt atcttttagat ttgactgata gatctgcaag aggacttcat 300  
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 gaagt 365

<210> 10681  
 <211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-H8  
  
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<210> 10682  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-A12  
  
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 gactgcagat gttggtgata agatcagcct tgcacggcag gttgtttctg ttgactatca 240  
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<210> 10683  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-002-Q1-K2-A4

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gctatagcga tgaccaacca aggcggtcaa gtctttccag agataatggt tcctcttggt 300  
ggaacaccgc angaattggg aca 323

<210> 10684

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A5

<400> 10684

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gttatggaat taccactatg aagcggatg cgtacgtcga cgagcacctg ttgtgcgata 120  
tcgaaagaca gcatgtcagc gtcgacgaca tcgtctgtca cgacggcagc gtttgagcgc 180  
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<210> 10685

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A6

<400> 10685

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gctcaagggt aaccaaatacg gatctgtgac tgagagtatt gaggtgtga agatgtcaaa 180  
gcgtgcgggc tgggggtgtga tgactagtca taggagtggg gagactgagg acactttcat 240

tgctgatctg gcagttgggt tgtccacggg tcagattaag actggagcac cctgcaaata 300  
agagcgtctt gccaaataca accagcttct taggattgaa gaagagcttg gcgctattgc 360  
tgtctacgca ggtgccatat tccgtgcacc tgtggagccc tactaaacgg gcgggatgca 420  
agtgctttta tgtctgcaca agtcctgtga aactgttta 459

<210> 10686

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B1

<400> 10686

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gtcggatgga gccgtacgcg gcggcgaaga gcggcggggc cgacgccggc accggcaccg 180  
gactggaaga ctgatgctg aggtctggggc tcggcgacga cggggaagca ggggaggaga 240  
agcttccgga gcggccgggc gaggcggact gcgcctacta cctccgcacg ggcgcctgcg 300  
gtacgggtga gcgctgccgc tacaaccacc cccgcgatcg gccggccccg gttaatggag 360  
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<210> 10687

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B10

<400> 10687

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gacttcgcca actacttctg cacgtacgcc tacctttacc accagaagga gatgctctgc 180  
gaccgcgtcc gcatggacgc gtaccactcc gccgtcttcc gcaacgcgcc ccacttccag 240  
ggcaagggtg tccttgacgt gggcaccggg agcggcatcc ttgctatctg gagcgcgcat 300  
gccggggcca ggaagggtga cgccgtcgag gcgactaaca tggcgagca cgcgcgcgag 360

cttgctcgcg ccaacggcgt cacggatata gttgaggtga tacagggcac cgtggaagac 420  
gttgaccttc cggagaaagt gat 443

<210> 10688  
<211> 265  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-002-Q1-K2-B11  
  
<400> 10688

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tccaagcatg gaagtcgcgg cggcgtcggc gaggcccgtc ctgcgcgtgg ctgccatctg 120  
cggctcccta cgcaaggcct gcttcaaccg cggccttctc cgcgccgacg cggaggtgtg 180  
cgaggactcc atcccggggc tccgcatcga cgagctcgac atctgcgacc tgcccatcat 240  
caacaccgac cttgagaccg gcagc 265

<210> 10689  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K2-H5  
  
<400> 10689

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gagcgccagg ctgaggtctc caacgcccc gcctacggcc gcccgagta cgggtggcccc 180  
cgccgtgacc gcgttttagac ttcgcggtgg ttgcctcttg atcgactgc tattcgtagt 240  
tgttgtecta ctatgctaaa cttcttttag atctttggtt gcatctgtgg cggttaagtt 300  
ttgaacttgc ctgntatggt ataaattctg aagtgtttgg gtctgcgtgt gatgaacatg 360  
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<210> 10690  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-G12

<400> 10690

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gcgagtgtgt tagctcaaaa aatccaattt aacacatttg gtggaaatcc agtttgttct 120
gctggtgggt tagctgtgct taaggttctt gacaaggaga aacgccaggc acattgtgct 180
gatgttgat ctcacttggt ggagcgtcta aaatcgcttc aggagaagca cgaaatcata 240
ggtgatgtta gaggaagggg actgatgctt ggggtggaac tcgttacgga cagaaaggag 300
aagaccctg ccaagtcaga aaccattgaa ctgtttgaga agctcagaga tctcgngta 360
ctagttggaa agggcgtct gcatggtaac gtcttcagaa taaaaccacc gatgtgcttt 420
tcgaaggacg atg 433
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<210> 10691  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 10691

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gcaatgcaga tgccctgccc ctgcgcgggg ctgcagggtc tgtacggcgc tggcgccggc 180
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cagtgcagcc cgctggcggc ggcgcctac tacgccgggt gtgggcagcc gagcgccatg 300
ttccagccgc tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtc 360
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ctgtacgagc cagctctgat gcagca 446
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<210> 10692  
 <211> 333  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-001-Q1-K2-G4

<400> 10692

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cgctgaagct taccttggca gcacgatcaa gaatgctgtt gtcacgggtcc ctgcctatatt 180  
caacgactcg cagaggcagg ccacaaagga tgctgggggtg attgctggcc tcaatgtgct 240  
gcgtatcatc aatgagccaa ccgctgctgc tattgcctat ggtcttgacc agaaggcaac 300  
cagtgtccgt gagaagaatg tcttcatttt tga 333

<210> 10693

<211> 383

<212> DNA

<213> Zea mays

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<400> 10693

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agaggaaagc agttggaatt tgggggtgca aggactgtgg gaagggtgaag gctgggtgggtg 120  
cttacaccat gaacactgct agtgcggtca ccgtcaggag cacgatccgc cgcttgaggg 180  
agcagactga agcatgatat agctctttat attattgggg tttcctgtag ttgctcttgt 240  
caggcatgtt gtgggggcct tctctagtgg aaatgtggaa tcaactgtact ggctgttttg 300  
ccgagacaat gctccttata tttggtttat gctctaggat ctcaaagttg tgggtgttaag 360  
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<210> 10694

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G6

<400> 10694

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tgcgtaccta caacagcgac aacagttact taatccacta gcggtggcta acccattggg 180  
cgctgccttc ctacagcagc aacaattgct gccatacaac cagttctctt tgatgaaccc 240  
tgccttgctg tggcagcaac ccatcgttgg tggtgccatc ttttagatta catatgagat 300  
gtactcgata atggtgccct catagcggca tgtgtttcct aaaaataatc aatatattga 360  
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<210> 10695

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G7

<400> 10695

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gtgcaacaac acgaacagag ccatgagcaa cactaaggac agagccatga gcaacaacat 120  
caacaacaat tcaaggggtca tgacaagcag taactaccat aacagtctca gcaatatcag 180  
cagggtccagg aaataatcga caacagcaac aatgtcattg ccaggagcag caacagacta 240  
caaggtgcag gtataactac tatagcagta gctcaaactc aataaattgt catgaatatc 300  
taatgcagca gtgcagccct ttggtaatgc cttttctcca atcacgtttg atacaaccaa 360  
gtagctggca agtattgcag caacaatgtt gtcattgatc tatgcagatt gagccacaat 420  
acattcacca agcaatctac aacatg 446

<210> 10696

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G8

<400> 10696

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cgcatgcggg gaaggtttac ggggtgggcta tctggccgtt cgtatcgagg gctctgctgg 180  
ccctggagga ggccggcgtc gactacgagc tcgtcgccat gagccgccag gaccgccacc 240

accgacgacgac ggagcaccta gccaggaacc ctatcaggaa ggtgccagtg ctgaggatg 300  
gcgacctgac gcgcttcgaa tcacgcgcga tcgcaaggca tgttggttcgg aagcacaagc 360  
cgtagctgat gggcggcgcc atgctggaac aaactgtgat ggtggacgtg tggctggagg 420  
tgg 423

<210> 10697  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-001-Q1-K2-G9  
<400> 10697

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tccacaatgc tcaacttgctc cgagtgccat tattccacag ttctctcctc cagttacttc 180  
aatgggcttc gaacaccag ctgtgcaagc ctataggcta caacaagcgc ttgcggcgag 240  
cgtcttagaa caaccaattg cccaattaca acaacaatcc ttagcacatc taaccataca 300  
aaccatcgca acgcagcagc aacaagcact gagccaccta gccgtggtga accctatcgc 360  
ctacttgcaa caacagctgc ttgcatccaa cccacttgc tgggcaaacg tagctgcata 420  
ccaacaacaa caacagtt 438

<210> 10698  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ccaagatatt ttccctcctt atgctccttg ctctttctac atgtgttgct aacgcgacaa 120  
ttttccctca atgctcacia gctcctatag ctccctttt tccccatac cttccatcaa 180  
ttatagcttc agtatgtgaa aaccagctc ttcaaccata taggcttcaa caagcaatcg 240

cagcaagcaa cataccttta tcgcccttgt tgtgtcaaca atcgccagcc ctatctttgg 300  
 tgcagtcatt ggtacaaacc atcagggcac aacagctgca gcaactcgtg ctacctgtga 360  
 tcaaccaagt agctctggca aacctttctc cctactctnc gcaacaacaa tttctttc 418

<210> 10699

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H10

<400> 10699

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 ttgagcagga atcctacagc caaaaccatt ctggagcttg tacgatctta tgatggtgat 180  
 catatttgct atgatcactt tgctttccgg acatttgggg tcaatgggta tggataaac 240  
 tcactttctg actttttcac tgattttggt tatttacctc gcgaagaact cagatttcca 300  
 gctaaaaagc ttagggcact atggttttcc ccgccacta atgatggcta ctctggaact 360  
 ggtacatatg gacctttgcc aaggatattc atttcagaac ttcttgtgga tgagttgact 420  
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<210> 10700

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H11

<400> 10700

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 tggtcagcca cgttgccggg aagaactccg tcctgagcga cttgccggcc gccgtcatcg 180  
 ccagctcgta tgccatctgc atggaggaag ctgcagagct caagaacggt aggaagcatg 240  
 agctggctgc gcttactcct gctggcagtg gcagctacca acaagggtcaa gctggcagcg 300  
 cccaacagta ggcacaacct cagagtgatc tgctgaata agtactcgta gactgggtata 360

attaaacaaa gc

372

<210> 10701

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H12

<400> 10701

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gtagtggcag tattgctgct ctgattagtt tcttgtcgag tgtgcatgaa atggctgtga 120  
gatctgctga tgtttctttc cggtgtagaa tggaatcgtc tcccctaata ataacaataa 180  
taatacattc tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaatctaaa agacacaaaa catacaaaga 300  
aatacaataa acataataga caccaaaaaa aaatacactg aacaaaatta aaaaaaacta 360  
agggggggcgg cgttttaagg ggtcacactt tttaat 396

<210> 10702

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H3

<400> 10702

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tcaggttccc caagcggaat ctcaaagccc catctccatc cgcgccagcg gcgtcgcaac 120  
ccgcagacca gcacgcgacc ctcatgttcc ggtagggggc taaagcagag gcaccatctt 180  
ctggagagat taaaaattac cgctttagat ctgatgtgcc ttgtccacct tctcactg 240  
ctgtaggagg gccagcttca ctcttccta agcgcaaacc cctgactgaa ggagagattg 300  
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<210> 10703

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H4

<400> 10703

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ctatgttagg aactgccgca acgggaggtc gccaaaggag actagatggg ggttccatga 180  
cgacacggtg taatgatctc tgtggcattg cctgtcagcc ttctgtactg tgatatactt 240  
cttcaagggg gagatgagat gatttaggcc tatttctaag caaccctcta ttggattgcg 300  
aagcttacct tgctgtgggtg gtatgtaaag gagttgctca cgtgtcagtc tgggaatatg 360  
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<210> 10704

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G11

<400> 10704

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aataataaaa aaaaaaagtg ggctccattt aaatgatcca agtttactta ccattacttg 180  
caacgatata aatctactat atggtgacct aaatttaata tcatgaccct ctttttaaaa 240  
tattacaact cta 253

<210> 10705

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E11

<400> 10705

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ctaattggctg cgctgctggc ttcgtccgcg tcggcggcga tcacctgcgg gcaggtgggg 180  
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 tgctgcaacg gcgtcaagag cctcaacagc tcggcgcgga ccatctcgga ccgtcaagcg 300  
 gcgtgccgat gcctcaagag cctcggcaac agcgttaaga gcgtcaacat gggcaccgtc 360  
 gccaccatcc ccggcaagtg cggcgtctac gtcgtattcc ccatcagcat gttcaccgac 420  
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<210> 10706

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E12

<400> 10706

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 cttcacaacg ccttcaccac ctacaacgaa aaccacgctt ccaataccaa cctcgatcac 180  
 aatacacata agaacctagg ctatctatca gacacctatt ccactctata taccatactt 240  
 aacaccatcg aattcataaa ctgcattatc acatactaac ctatcaacaa cgttaaccag 300  
 gccagatct atcacaagca aagattccac gaccttgtgt accctctagc tcctcttacc 360  
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<210> 10707

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E5

<400> 10707

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 aagaagttcg gcatcaagcc tgccaaggct ctgacagttg atgggtgctga gattgatgag 180  
 gtggagctta tcagagacag tgatcatatt cttctcgtca gtgatgaatg ggtgccagat 240

gttgcacaaa ttatgcctaa acaataagtg agccagctgt agagctctta ttgcaatttg 300  
 acatgatatg ggaaaacatg cccctgtgac cctgtgtgca tgtccacatt taaactgaag 360  
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 cac 423

<210> 10708  
 <211> 83  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-E6  
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 aagattacaa tgttcttttg cct 83

<210> 10709  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-E7  
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 agaaagggat gcttgaagtg tacaactctt tgagcgagga aggcaaaaag gagttcaaca 240  
 aggcttatag cgcacgtttt taccatgca tggatatact ctacgaatgc tatgaagatg 300  
 tggcctctgg aagtgaaatc cggagcgtgg tgttggctgg gcggaagttt tatgagaaag 360  
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<210> 10710  
 <211> 328  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-001-Q1-K2-E8

<400> 10710

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tgcattctgga aagccagcaa agaagtgggtc gttttggggc cgcagctact gattgccttt 180  
gctgggagtc cttttggatt cagtagtgaa ccatgtaact tcgagatttt ggatacaaat 240  
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<210> 10711

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F1

<400> 10711

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<210> 10712

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F12

<400> 10712

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catttgttgg cacaaaacat caaggcacia caactacaac aacttggtgt aggaaacctt 180  
gctgcctact ctgagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 240  
gctgcttatt tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa 300  
tttcttccat tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacaa 360

ctaccaccat tcagccagct agctgatgtg agccctattg ccttcttgac acagcaacag 420  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F2

<400> 10713

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 aattgagaaa gatgtaaaaa ctcggacaaa aggggaactt ggagctgcga aaacattgtg 180  
 tactccatth gagcagccag aactttcaga aggtaccctg tgctttgcat ctggaaagcc 240  
 agcgaagaag tggtcgttct ggggccgcag ctactgattg cctgtgctgg gattatttct 300  
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 ttaca 365

<210> 10714  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F3

<400> 10714

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 gagcaaagcg aaagcagcaa gaagcaaagc aatggagaac cctgcgagtg tgctagttct 180  
 accagcgcag ttcaccaaac tcaccttcgg aaacctgtac atccgccggg ccgggccggg 240  
 cagcagggag ataaccgagg agggcaggtg cgacctggac aagagatacg tgagtgactt 300  
 cccgtctac gacggccgcg gccccgacgc cagccttgtg gccgcgtgc aggggatcac 360  
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<210> 10715

<211> 464  
<212> DNA  
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<223> Clone ID: LIB3059-001-Q1-K2-F4

<400> 10715

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gctctcactc cttactaaag cgctctacaa accaacatac tactacatct cagtctgttc 180  
ccacagatct gtcagcaatc aggctgaaga aagcaggact tgcgttctct gatggtatgt 240  
ttttgcaaac tgtgggtaat gttactttga agttctatgt aaaagtcagc ttaattcgct 300  
tcacttaaaa caaagctgtc aattgctaaa gtaatactgt ctagatcaca aacctgaagt 360  
gtgagtggct tatacgtatg tcctgtggta gtttgaacga gcacaatgtt agtgcgcaac 420  
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<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F6

<400> 10716

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agtaatacta ctacaaaccg atcaatgtat ctatgtatca tctatctcaa atgctagcta 180  
gtatagcact acaaacatgt ctatatatat atagcatcat gctaataaat aggaatataa 240  
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gcaaaaacttt atagattcca a 321

<210> 10717  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F7

<400> 10717

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acgcatcact acaacgccaa catccgagct tcttatcact agccgccgaa tacgcattcg 180

tatctgcctt agtactgatt catctagata ggacacagct ccagctgcta gagatcgaat 240

ggaccacgca gaaggactat tacatcatga acaatcttgt caacaagatc cgatctgtga 300

tatacgtctt ccatgttcac 320

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<211> 430

<212> DNA

<213> Zea mays

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<400> 10718

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gtgtacaagg ttggtgtcac acactacttt tcgttcttga aagctagaga ggagctcggc 120

tacgtgcccc ttgtgaggcc ccacgaaggc ttggccgcaa cgatctcgta ctggcaagag 180

cggaagagaa tggagctgga tggcccgacc atatttactt ggctggccgt aacgatcggg 240

atgctggccg tgttttctgc cgctgcctc ccgccagtcg gcccgttgaa atgggtgctc 300

gacgtccaca tgtttgtttt ccgctcgatg ctcgtgatcc ggctgggtctt ggcggtagcg 360

atcgactgc atgctggcga agccgtgtac gcctgggttct tggcgagaag ggttgacccg 420

aggaacgctg 430

<210> 10719

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G10

<400> 10719

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gcggtcgtg ctgacgcctc ctccagtaca agcggcggct gtggctgcca gacaccaccg 120

tttcatctac cgctccgtt ctatatgccg cctccggtct atctgccgcc gcagcagcag 180  
 ccgcagccat ggcaataccc cactcaacca ccgcagctaa gcccgtgcca gcagttcgga 240  
 tcttgccggcg tccgcagcgt cggcagcccg ttcttgggcc agtgcgtcga gttcctgagg 300  
 caccagtga gcccgggcgc gacgccctac ggctcgccac agtgccaggc gctgcacag 360  
 cagtgtgcc accagatcag gcaggtggag ccgctgcacc ggtaccaggc gacatacggt 420  
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<210> 10720  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E10

<400> 10720

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 tctattgact catgtaacat ggaggccagt gtagtcaaga cttgcgtaaa tctcctcgag 180  
 gatacatggc aacttcagtt gtcatacaat gaacagaatg aaactaaaac gaatgacgag 240  
 ctggaaagat gcacaagcag ttttctgaag ttgaccaagc atcatctttc ctatatcaag 300  
 gaagttctta gcccatcaat tgagcggata cgcacatacg tggataattc ggagtcctta 360  
 aactctaggg aggagtcaat agaacatgga cgggatgatg agatttctga gcagacaagt 420  
 ccacaaaagt cccttg 436

<210> 10721  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C4

<400> 10721

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 catcattcta aagatccaaa ttttcgtaca cgttcattca atgtcataac ttttttataa 180

tttgacttaa attaaattaa ctggacctct atttacaact tctaaccttt taaaaccttg 240  
tcttctccca acttaattac cttacaatat attccccctt 280

<210> 10722  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C5

<400> 10722

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gtttctgaca tggccgaagg tcttgatgct cctacatcgc tgcttgcctag aatgggtccag 120  
ccaacggacg ggaagctggt atggtttctg gacaaggcgg cggcatcatt ccttgactcc 180  
aagaacgacg atgacgacgc ttgctacgag cgtcatgagt gactaactcc gaggatcctt 240  
ggtcgttttg aagcgaatga acggaggtgt gtgtaagtag gtggttgctg atgatggaag 300  
acgcgctgtt ccccttttag ctcatgcat gggttaattt tgttctgagg gtttttagct 360  
ccggaaatct gaaattgctc tcggtccttt tgcagtgagg tgatttaaag cgatgaaatg 420  
tgtatgcgat gttgagt 437

<210> 10723  
<211> 213  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C6

<400> 10723

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acgtcttgtg aatgtgacta gttatgtgat ctatcatcga cggttcgata cagatgcaca 120  
gcgtgtgcat attgctgcaa acattatccc actctctcgc catgctgaag acaatgatcc 180  
acgacgcatg actatgccaa ctaccaggag tta 213

<210> 10724  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C7

<400> 10724

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aactactacc attcatccag ctagctgctg tgagccctgc tgccttcttg acacagcaac 180  
aattgttgct gttctacctg cacgctgcgc ctaacgttgg caccctctta caactgcaac 240  
aattgctgcc attcaaccaa cttgctttga caaaccagc agcggttctac caacaacca 300  
tcattgggtg tgcctctttt tagattgctt atgagttata gttcaataat aaagtttttt 360  
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<210> 10725

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C8

<400> 10725

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acaagcaggt gacctgaagg agtatgaggc tattgtgcgc tgttttcgtc agaaccctca 120  
actgacgggtg aactcgacca aatcaatgac tgggcatctt atacgagcag ctggtggaat 180  
agaagcagtt gcttctatac aagctataag aactggttgg gtccatccaa atttgaattt 240  
agaaaatcct gaggacactg tggatgtggg catcttggtg ggatcacaga aggagagatg 300  
tgagggtgaac gtggcggttaa tccaactcat tcgccttcgg tgggcacaac tcatcaattc 360  
tgtttgccac ctttaaggaa ctgccatctt cctcatcgtc caaatagatt catatatctg 420  
gatctccaca tag 433

<210> 10726

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D1

<400> 10726

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 ttgttgccct ggcgtgtgga caaatggaaa cgaggctgga aatgcagacg tggagtacat 180  
 tgattctgag aatctagtgg atctaccaga tgttgatgca gctctatgta ccttagttaa 240  
 aaggttggat tcaaaggact gggttatgac atgtgaagct ctcaacaatg ttcgtcagtt 300  
 ggcgatgtat cacaaggaaa gattgcagga gctgctggag cctctagtgc ctcttatcgt 360  
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 catcttt 427

<210> 10727  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-D10  
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 gcggtgtctt caggatgtga aaaccaatt cttcaaccct acaggatcca acaggcaatc 120  
 acagcaggca tcttaccttt atcacccttg ttctccaac aatcatcaac cctattacat 180  
 caattacctt cgggtgcattt attggcacia aacattaagg cacatcaact actacaactc 240  
 ttgctagcaa accttgctgc ctacgctcat caacatcagt tacctttggg gcaatttgtg 300  
 gcacaaaaca tcagggtcca acatctacta caactcgtgc tagcaaacct tgctggctac 360  
 tcttaacatc agcagtttct gccattcaac caactagctg cattgaactc tgatgcttat 420  
 ttgcaacaac aacaactact accatt 446

<210> 10728  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-D11  
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gggtgccgct ggtcctggcg ctcttcctcc tcttgccgg ttgcggcagc gaggcgcagc 120  
 cgctgggtgcc ggcgctgttt acgttcgggtg actcgtcggt ggacgtcggg aacaacgact 180  
 accttcacac catcatcaag gccaaacttc cgccatacgg cagggacttc gccaaaccag 240  
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<210> 10729  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 caatttcttc cattcaacca actggcagca ttgaactctc ctgcttattt acagcagcaa 180  
 caactactac cattcagcca gctagctggt gtgagccctg ctaccttctt gacacaacca 240  
 cagttgttgc cgttctacca gcacgctgcg cctaacgctg gcacctctt acaactgcaa 300  
 caattgctgc cattcaacca acttgctttg acaaacctag cagtgttcta ccaacaaccc 360  
 atcattgggtg gtgccctctt ttagatttct tatgagttat agttcaataa taaaagtttt 420  
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 <211> 75  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D2

<400> 10730

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<210> 10731  
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<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-D3  
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 gagtcgcaga gcttccgctt caagggacct tgctcgaggg acgccaactg cacaaacgta 180  
 tgcttgacct aagggtttcac ggacggtgcg tgcataggcc tactacaccg gtgcttctgc 240  
 accaaggact gctagtactg cctggcctcg ccttgtagacc tgcgtgtgca tagccgtagc 300  
 ggatcactga aacatgcatg catgcgttac tgaatatattg gcagtaccag caagttaatg 360  
 aattaaataa tatgtaatgg aac 383

<210> 10732  
 <211> 235  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-D4  
 <400> 10732

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 tcagctgccg gcgcctatgc aatgcagatg cccctgccct gctcgaggct gcaaggcttg 180  
 tacggcgcta gctcacacct gacgactatg atgggcgcgc gcctactcga cccat 235

<210> 10733  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-D5  
 <400> 10733

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 cgcgacaatt ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct 180

tccatcaatg atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca 240  
agcaatcgca gcaagcaaca tacctttatc acccttggtg tttcaacaat cgccagccct 300  
atctttggtg cagtcattgg tacaaaccat cagggcacag cagctgcagc aactcgtgct 360  
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tcttccattc aaccaactg 439

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<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D6

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gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180  
gcgcgcggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtgg 240  
cggcggcgcc ctactacgcc ggggtgtgggc agacgagcgc catgtaccag ccgctccggc 300  
aacagtgtct ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
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tgatg 425

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<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D7

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ccacctgaat tgtatggtat cattattgat tgacatatgt gagcctactc tgcagcctgc 300  
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<210> 10736  
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 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-D8

<400> 10736

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 gcgctgtgct acggtccagc gt 142

<210> 10737  
 <211> 217  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-E1

<400> 10737

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 caccgtgaac gtgggcatte accccttcaa ggggatcgtc actaagctga agctcgacaa 180  
 ggaaccgaag gcgctcctgg accgcaaggc ccggggc 217

<210> 10738  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C2

<400> 10738

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tgaaggggtgc ggtgacagga ctgcccgcgg ggaccatctg gggcaccgtc gtcgccacct 180  
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 agatgtgcgg cacctacggg gccaccttcg tcaccatcgg gggcctctac atcggcggtg 300  
 agcagcttgt gcagagccag cgcaagaagc gc 332

<210> 10739  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A8

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 ccagtacatg cagagccttg gcgccgcaca gggcttcgct ccgccacctc cattgttccc 180  
 tgcagttgac cctgctatct tccatactcc tggccaatct ggggcgacat gcaacaaccc 240  
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 tttctagtgt ttagacttca gaacttgctg tcaatactta tgttcttgat acttatgaga 360  
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<210> 10740  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A9

<400> 10740

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 cctcaatgct cacaagctcc tatagcttcc ctttttcccc cataccttcc atcaattata 180  
 gcttcagtat gtgaaaaccc agctcttcaa ccatataggg ttcaacaagc aatgcgagca 240  
 agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttgggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360  
caagtagc 368

<210> 10741  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B1

<400> 10741

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gctcgttggc ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gctcgcaagc 120  
tcctatagct tcccttcttc ccccgctacct ctcaccagcg gtgtcttcgg tatgtgaaaa 180  
cccaattctt caacctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240  
acccttgctt ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300  
ggcacaaaac atcaaggcac aacaactaca acaacttggt ctagcaaacc ttgtgccta 360  
ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaacc tctgttctta 420  
tttgcaacaa caacaacta 439

<210> 10742  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K2-B10

<400> 10742

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cctgcgcccg gccgtcgggc acggacggct ccgacttttc ttaccgcatg gtcgtcgaat 120  
cccggtagca gagggtcgcc gagggcagat cccgcctcgc gcgcctcatc ctctgacagg 180  
cgctgcacct agtggccgga ggcttgcttc tattgctgtc gttgtccaag ggggcccggc 240  
tgaacaagtt cgccgtgctg tccatggccg cgggattcct ggctatagtg gtgggggaat 300  
tagggcgaat gcggaccatg gcagtgtgc ttccgcttta cacaagcttg tcatcaattg 360

cggttgacatt ctctgtgacg tgcattatcc ggtcagaggt gttcttgagg ttatgaagca 420  
naacacag 428

<210> 10743  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B11

<400> 10743

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accggctcgt ccggccgttg ccgatcgtcg ctatggccgc cgtggagggtg tgcgtgaagg 120  
ccgccgcggg gaaccccgac acgctcggcg attgcccgtt ctgcagaggg gtgctgctca 180  
cgctggagga gaagaaggtc ccgtacgagg tgaagctcgt cgacctcggc aacaagcccg 240  
aatggtttct gaacattatc ccagatggta aggtgccttt gttcaacggt ggagatggca 300  
aatgcattgc tgattctgat gtaatcacc aagtcac 337

<210> 10744  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B12

<400> 10744

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gcgggtgagg ctgcctcct tcttcgccgg cgcggctgcc gccgccacgg gcgggggcta 120  
cttctctac aaggactaca agctcgccaa cgattctatg gccctcaagg tgaaatgtct 180  
ccaggactca actgacactc gctacgaagc ccttgaaaag cgactcgctg ctttgaagg 240  
tcagcaaagc actgaggctg caccggatgt ggatacgcca tcagattagt ctgttcgcta 300  
cgagactttg atttacgtct gttttcgttt accccagttg tcttctcctt tgaaagcaag 360  
tacctgacca acaacataat aatctaggat gcttctttgg actgcaagtc tgcaaatgt 419

<210> 10745  
<211> 315  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B2

<400> 10745

gtcaacaata cccttaatat ctcccgtag actcttcagc agaacaagat cctgaagggtg 60  
atccggaaga accttgtaga gaagtgtgtt gagctcttct ttgagattgc tgaaaacaag 120  
gaggactaca acaagtttta tgaggctttc tccaagaacc tcaagcttgg catccatgaa 180  
gactcgcaga acaggggcaa gattgctgag cttctgagat accactccac gaagagcggt 240  
gatgagctga ccagccttaa agattatgtg acgaggatga aggaggacag aacgacatct 300  
actatatcac tgggtg 315

<210> 10746

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B3

<400> 10746

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ttcagaccat accgagtata ggactatgac ctgcgcagtt gaacaagagc gatatgtcca 120  
ggtcagctac tgaccatata catacggata ggttgagcag atacagaatc gaattggcac 180  
tactgatgat acattagcag gaacattact gcgcctaggt gacagggctg ctgtgttaca 240  
taatccgagc aactaatct ctcacgagac tagcaaagga tagaggacta aggttgacat 300  
aggcacgagc tcgatacatc ctctggga 328

<210> 10747

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B4

<400> 10747

cgaaggcaat ggtcaggag ttattgaagg agtatgagaa cgtctgcact ctgcgagggc 60  
ggatgccgat atctctgac ctcagcaacc cgcggaactt cgtgacaaag atcagccgtt 120



acaacaaggt ggtgaacatc cccaacagca tgacgatatt ggacgaactc ctgcccattct 180  
cagtggagat ggcgaagagg aacctgcggg gcattctataa cttcaccaac cccggcgctcg 240  
tcagccacaa cgagatccta gagatgtaca agcagtacat cgaccctagc ttcaagtgga 300  
caaacttcac cctcgaggag caggcgaagg tcatcgttgc tccg 344

<210> 10748  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B5

<400> 10748

gagcattcag aaacacacca agcgaagcgc actagcaaca acctaacaac aatggctacc 60  
aagatattat ccttccttgc gcttcttgcg ctttttgcga ggcgaacaaa tgcgtccatt 120  
attccacaat gctcacttgc tcctagtcc attattccac agttcctccc accagttact 180  
tcaatggcct tcgaacaccc agctgtgcaa gcctataggg tacaacaagc gattgcggcg 240  
agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacaata 300  
caaaccatcg caacgcaaca agcacaacag ttactaccag cactgagccc actagccatg 360  
gtgaacccct gtc 373

<210> 10749  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B6

<400> 10749

cagaccatta gctctatcta ctccagagcg cataacaacc cgatcgacac catgaggggg 60  
ttgctcgatg ccttcgctct cctggctctc gctgcgagcg ccacctacac gcatacaagc 120  
ggcagctgcg gctgccagcc accgacgccg gttcatctac cggcgctcggg gcattctgcca 180  
ccttcgggtc acctgccacc tactgtgcat ctcccaccgc cagtccacct gacggcgccg 240  
ggccacctgc caccgccggg ccatgtgccg ccgccgggtc atctgccgcc tgcacatgac 300  
cactacccta ctcaaccgca ccggcctcag cctgatccac agccacaccc atgctcgtgc 360

caaca

365

<210> 10750  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B7

<400> 10750

caaattgcac caagaaatcc atcgagaggc cgtcgacagg ggaattaatg gcgtcgtggt 60  
ctagcagcag ccaccgccgc ctcatcctcg cagccgccgt cctgctctcc gtgctcgcgg 120  
ctgccagcgc cagcgccggg acctcctgcg tgccgggggtg ggccatcccg cacaaccgcg 180  
tcccgagctg ccgctggtac gtgaccagcc ggacctgcgg catcgggccg cgcctcccg 240  
ggccggagct gaagaggaga tgctgccggg agctggcgga catcccgccg tactgccgg 300  
gcacggcgct gagcatcctc atggacggcg cgatcccgcc gggcccgac gcgcagctgg 360  
agggccgtct agaggacctg ccgggctgcc cgcgggag 398

<210> 10751  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-B8

<400> 10751

cggacgcgtg ggcgcaaatt gcaccaagaa atccatcgag aggccgtcga caggggaagt 60  
aatggcgctg tcgtctagca gcagccaccg ccgcctcctc ctgcagccg ccgtcctgct 120  
ctccgtgctc gcggctgcc a gcgccagcgc cgggacctcc tgcgtgccgg ggtgggccat 180  
cccgcacaac ccgtcccgga gctgccgctg gtacgtgacc agccggacct gcggcatcgg 240  
gccgcgcctc ccgtggccgg agctgaagag gagatgctgc cgggagctgg cggacatccc 300  
ggcgtactgc cgggtgcagg cgctgagcat cctcatggac ggcgcgatcc cggcggggcc 360  
ggacgc 366

<210> 10752  
<211> 417  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C1

<400> 10752

gcaacatata aagcacaata gtgtaccaac aatggcagcc aaaatatattt gcctactgat 60  
gctcgggtgtt ctttctgcaa gtgctgctac ggcgaccatt ttgccgcaat gctcgcaagc 120  
tcctatagct tcccttctta ccccgtagct ctcaccagcg gtgtcttcgg tatgcgaaaa 180  
cccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctgtatc 240  
acccttggtc ctacaacaat catcagacct attacatcag ttacctttgg tgcatttatt 300  
ggcacataac atcagggcac aacaactacg acaacttggt ctagcaaacc ttgctgacta 360  
ctcttagcaa cagcaagtgc ttacattcaa ccaactagct gcattgaact ctgcttc 417.

<210> 10753

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C10

<400> 10753

ccacccactc gtccaaaaaa acatatataa aaataataaa taatatattat tataaattat 60  
aaaaaaaaaa aaaaaaaaaa gaaaaatttg aaaaatttaa aaaataaaat aaaataataa 120  
tataaataaa aataaaataa tataatataa ttatatataa aaaaataaaa aaaaaaaaaa 180  
tccccccctc ttataaaatc ccaacataat taccctctc attcctattt tataattttt 240  
ttaaatatcc cccaaaataa aattaac 267

<210> 10754

<211> 252

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K2-C11

<400> 10754

agaagcgtgc tcctgggaag gctttcctcg atgccgttgc ttaagtgcgg atgcgaatcc 60  
ttgggttttg ctgtagcgta tcttaacttg ctctgtggaa catgaatttc aagtgttttg 120

agggtattac agtgccttat gtgaacttgc ctatcttgtg ctgaacatcg gaatgtatcc 180  
 tccgagtatg tttaatcgca ttaattntaa aaaaaaaaaa nnaataataa atataaaaaa 240  
 aaatattata tt 252

<210> 10755  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-C12  
 <400> 10755

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 cttgaacatc caagatcagg agatgaagta gggatatctat ttattgatgg ccaactacaa 120  
 gagatcaact ggtttaagga gcgttatggg gcttgggttct tgggagatta tgtttgtgaa 180  
 gatggtggcc tttattattg caccctgtt gatcccatct tcattttcct accaactttt 240  
 gaagctgcac gtatgtcgaa cgataaggat ccaggaaaat tcagacaatt ggatgaaata 300  
 ttgtatgttg agggatatcc tggttatcag cagctaata gaatgtagctaa ccaccatattg 360  
 gaattggttt gtgaagtaaa agaagtatct aacatgaagt tctttagggt ggacaactcc 420  
 aaggctcttat cttgggtgtg ctgc 444

<210> 10756  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K2-A7  
 <400> 10756

caagaaccca tggccaaatg ttgatgctca cagtggagtt ttgctgaacc actttggagt 60  
 atctgaagca cggatttaca ctgtcttgtt cgggtgtttca agaagcatgg ggataggatc 120  
 tcagctcatc tgggaccgtg cccttggcct gccacttgag aggccgaaga gtgttaccat 180  
 ggagtggctg gagaactact gcaagaacaa ggctgcttga agcttttcac aaatgctgct 240  
 ttttcccaac cttggctgtt aataatttaa acgcgagtta tagaaatagt cattttccct 300

ttggccgttg aataacgcaa gagcaatatg ctcaggcgga agaattttgt atcttccgta 360  
acttggtgaa catccagata cttgatctgc ggcaacaatg ggcagaagag 410

<210> 10757  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F2

<400> 10757

ggcctaaaaca gcctaagaaa agagattcgc atttggtcat gtcgtgaaca cttgggggtga 60  
atgcacaact gctctgaata acaaaaagtt gatcttggct ccatgggtgtg atgaggagga 120  
aattgagaaa gatgtaaaaa ctcggacaaa aggggaactt ggagctgcta atacattgtg 180  
tactccattt gagcagccag aacttccaga atgtaccctg tgcattgcat atggaaagcc 240  
agcgaagaag tggtc 255

<210> 10758  
<211> 146  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K1-F3

<400> 10758

gtccgcgcac tcgtcctgtc acacgcacta ttcacactcc acacacatac atatagagag 60  
agggnatgta natcttaaac gtgccttgaa cttactaact aactggctaa ctagctcgaa 120  
ccgcatagca aatctaaagc tgcaat 146

<210> 10759  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F4

<400> 10759

aggcaggggtt ctagtgcgag tatggtcggg gttgatccta atttggctga tgaaggtgtt 60  
agtaaatggt ctgattctgg catgtccaaa ggaagctctc actccttact aaagcgctct 120

acaaaccaac atactactac atctcagtct gttccacag atctgtcagc aatcaggctg 180  
 aagaaagcag gacttgcgtc ctctgatggt atgtttttgc aaactgtggt taatgttact 240  
 ttgaagtttt atgtaaaagt cagctgaatt tgcttcactt aaaacaaagc tgtcaattgc 300  
 taaagtaata ctgtctagat cacaaacctg aagtgtgagt ggcttatagg tatgtcctgt 360  
 ggtagtttga acg 373

<210> 10760  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F7

<400> 10760  
 ggcaactcgtc cgcttacgtt aacggttcca gatcaggagg gacctcgcag cctccggcac 60  
 tttcgcaagg tcctctgcct ctgcagtcga cgcgctccgg ggctgggtggg atgacgtcaa 120  
 ctgagtcgcc ccattgccag gacgcggcct tcttatccct ctccgacgtc tactcatttg 180  
 actcctccgt agcactgat 199

<210> 10761  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G10

<400> 10761  
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 aaactcaatc tctcagaacc cacataaaag atcattgctg agtacatatg gggttggtgga 120  
 tctggtatgg acctcagaag caaagccagg actctacctg ggccattgag tgaccctgca 180  
 aaactttcga agtggaacta tgatgggtct agctatttat caagctctaa tggatg 236

<210> 10762  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-G11

<400> 10762

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gatgggtgcat gaaattggtg gagcatttgg tggagaaaaa gcaactggtg gtggacgaga 120  
agcagggagt gattcctgga agcagtacat gaggagggcg acttgtacaa tcaactatgg 180  
gagcgagcta cctctagccc agggaatcaa ttttggttaa tcttcagaaa atgttgcgcg 240  
tggatctcaa agttttctgc agacgtggat gccgtatgga aagaactgat gcaaccgcat 300  
atgagatctt agcaaaactg agcagcattt attggcgctca gttgtgaaac ttaaactgca 360  
ggaacatctt gtacataaat aaaataagat gtt 393

<210> 10763

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G6

<400> 10763

caacattgct ttaacactag taccagctct tactcagctg gctgaagcaa acttttaatg 60  
gctacttgca cctactatct ccattcaacc aactgactgt gtccaactct gctgcgtacc 120  
tacaac 126

<210> 10764

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G8

<400> 10764

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<210> 10765

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H10

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tcaagtaagg attctgatcc ttttgatgga ctctatgttg gtgcatttgg cccttatggc 120

atggaaatag tgcatttgag gctaaaattt tgacattgga atgaattgga caatgaaaac 180

aaaacttctt atgtgggatt ctttgaata 209

<210> 10766

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-H4

<400> 10766

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cggtaacctg taaatgacct ctacatcgcc agcaaagcaa cgcccggcgg acaatgaccg 120

ctatgttagg aactgccgca acgggaggtc gccaaacgag actagatggg ggatccatga 180

ctacacgacg aaaaga 196

<210> 10767

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H6

<400> 10767

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attgaagctg atgcatgccc aatcagggca atgaagttct ctgtctcccc tgttgtgcgt 120

gttgctgttc attgcaatgt tgcttacgac cttcccaagc tagtacaatg ttgga 175

<210> 10768

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H8

<400> 10768



cgtgctgaag atgtcattta gcctgcaagg atctggtgac ccagaggttag aagataattt 60  
 taaagcgaca gagaccatcc ccaaggatga atttcgtgga tgggttagga tataagagct 120  
 ccagaaaccc acccaacaac tgccgattgc aagatatagc taaagccaac c 171

<210> 10769  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A1

<400> 10769

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 tactataagg atgctttttac tcaactcaag cttgctgac ggcgtaagta tgaacacata 180  
 tctccaactc ctgaggagtg ggacaaggcc aaaatgttgt ttcatgcctt gaaaaaattt 240  
 tatgatctga ctgagcttct gtccggtact ttatatccaa ctggcaactt ggtctacaaa 300  
 agctttttgtg agattagaag tttgcttggg gactggtcta ctagtgaaga tatcaatatt 360  
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 gctcttgc 428

<210> 10770  
 <211> 235  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-F11

<400> 10770

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 ccacacagac ccttgacaag gatcaaggca tttcagttct cactactgca atcaaggcat 180  
 ggacagcata gattgaaaag tgctaagtga aagtatgtat gaatgaacaa ccaag 235

<210> 10771  
 <211> 429

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K2-A11  
  
 <400> 10771  
  
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 atctggagct gaacgcggag tcccacttcc tgagcttcgt gcagcggttc ggcaagtcct 180  
 acaaggacgc cgacgagcac gcgtaccggc tgtccgtttt caaggccaac ctgcgccgcg 240  
 cgcgccggca ccagctgctg gaccgcgcg cgagcacggt cgtcactaag ttctccgacc 300  
 tcacgccggc agagttccgc cggacctacc tcggcctccg caagtcccgg cgcgctctcc 360  
 tcagagaact cggggagtcg gcgcacgagg cgcccgtgct tcccaccgat ggtctncccg 420  
 acgatttcg 429

<210> 10772  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K2-A12  
  
 <400> 10772  
  
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 taaaagatat cttagggtca tcaaagaact tttgcatgca ctggactcat ttgctcaaag 120  
 tacaacttgg ttatcacacc tataaacttg aaccttttca atgttaacct tgcaatggct 180  
 ttacaggcc tgtatcatct ttcactgaag atcatgcaac attacttata ccatgataaa 240  
 gatgctgctt cacaactgta atcatatata atgacaacaa tcaaagaata actgattgta 300  
 aatcctgcat cctatgagtc tactcttgat tttttttttc tgtgcaagca aacaataact 360  
 tatctttcat gtttgttttc ctgttattct gaaatcttga gcattctaatt tttaaaatct 420  
 ttccccaaaa ataaaaacca attaaatcat t 451

<210> 10773  
 <211> 421  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A3

<400> 10773

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag gggggccctt 180

tttaaagttt caaagtttaa ttacccttaa tttcaaatta aaagttttttt aataggtcca 240

cttaaataaa attcattggc cacgttttta aaaattttta attggaaaaa ccttgggtta 300

accaaattaa atccttttga aaaaaatccc cttttcccaa attgggttaa taccaaaaag 360

gccaaaaaaa atggcctttt caaaaatttg caaatcttta atggcaaatg gaacccccct 420

t 421

<210> 10774

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A5

<400> 10774

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tccagatctg tgacccgacc ttctcgacgc ttcggtgaca tgagtgcctg gaaatctagg 120

gaggcgaaaa ggtcagagtt cagtcatgtc atgcttgatt tgagttctgt gccagatcaa 180

agcaagtagt agtacgtgag aagttaacca tgaacagaca ccctttttct ctttgtgtat 240

cacagatttt gaaacttget gagagggaaa aacaaattta tggggaaaaa atgtgacact 300

gaaagccatt tgcttccagc agcttaagaa ttgttgcggt agatgcaact gaagagggtc 360

ttcaagtaag taaatcaact actacaatgg ctactaaaa atggtcgaca ggacagtttt 420

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<210> 10775

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A1

<400> 10775

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tatttcaatt gatgtgtgaa caagggtgaa ttcaactttt ctgatgttga gggatgcttt 120  
atactataag gatgctttta ctcttctcaa gcttgctgat ctgcgtatgt atgaacacat 180  
atctacaact cctgatgagt ttgacaatgc ctaaattttg ttttattcct agaaaataag 240  
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<210> 10776

<211> 177

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-A10

<400> 10776

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accatcaggg cacagcaagt acattataat gaagctaagt ctgctcaatc aaggggcgtc 120  
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<210> 10777

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A11

<400> 10777

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gtcggccgcc gcggtctgga cgatcgaaaa cacggaggac ccgcccatcc agcggggggg 120  
ccccggagga gatgacaacg agctggagcg gaacgcg 157

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<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A3

<400> 10778

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aaaaaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcaat aaaaaaaaaa aaaacaaaaa 180

aaaaataaaa aacaaaaaaa aactaaaaaa caaaaaaaaa caaaacaaac aaaaaaaaaac 240

aaaaacaaca aaaataacaa aaaaaaaaaa aaataaaaaa taaaaacaaa acaaaaaata 300

aaaacaaaac aacacaaaca aaaaaaaaaa acaaaacaca caacaaaaaa aaaacaaaaa 360

aaaacaaaca caaaagacaa caac 384

<210> 10779

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A5

<400> 10779

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ttctgaactg agaccggacc ttctatactc tgcggagaca tgagtgcctg gaaaactata 120

gaggcgaaaa ggtcacagta cattcatgta atgctcaatt tgagtactgt gccatatcaa 180

agcaa 185

<210> 10780

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A6

<400> 10780

ggttgaacaa tggcataaat atgaactcta aaccaaaaaa aaaaaaaagg gaaaaggtaa 60

aattaaaaag gacaaaaacc caaccaaaaa acagaaaaca aacaaggccc cccccctaa 120

<210> 10781

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-A7

<400> 10781

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agcgactttg gactatttga agcgacggta ttacactgtc ttgttcggtg tttcaagaag 120  
catggggata ggatctcagc tcactctggga ccgtgccctt ggctgccac ttgagaggcc 180  
gaatagtgt accatggagt ggctggagaa ctacttcaag aacaa 225

<210> 10782

<211> 51

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K1-B10

<400> 10782

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<210> 10783

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B12

<400> 10783

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attgtaacag cgccgacgcc tctatctcat gcggcacacg ccctgtggac tatgatgtgg 120  
acttctccaa ctacattttt cacgtacacc tacctttacc acca 164

<210> 10784

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B5

<400> 10784

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caatatatta tccctccttg ctcttcttgc tctttttgcg agcgcaacaa atgcgtccat 120  
tattccacaa tgctcacttg ctcttagttc cattattcca cagttcctcc caccagttac 180  
ttcaatggcc ttcgaacacc cagctgtgca agcctatagg ctacaacaag cgattgcggc 240  
gagcgtctta caacaaccaa ttgcccaatt gcaacaacaa tccttggcac atctaacaat 300  
acaaaccatc gcaacgcaac agcaacaaca gttcctacca gactgagcc acctatccat 360  
ggtgaaccc 369

<210> 10785  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B7

<400> 10785  
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gctgccagcg ccagctccgg gacctctgc gtgccggggg gggccatccc gcacaaccgc 180  
ctcccagct gccgctggta cgtgaccagc cggacctgct gcatctggcc gcgcctccca 240  
tggccggagc tgaagaggag atgctgccgg gagctggctg aca 283

<210> 10786  
<211> 195  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-B8

<400> 10786  
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aatggaaagg gcctcgagca gcaccaccg ccgcctcatc ctgcagccg ccgtcctgct 120  
ctccgtgctc gcggctgcca gcgccagcg caggacctcc tgcgtgccag ggtgggcat 180  
cccgcacaaac ccgt 195

<210> 10787  
<211> 456  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C11

<400> 10787

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tttacaaaaa actttagaca atcctaatta acgggcgaga acatgaataa caagatgaaa 120

gaaggaataa caatgccaaa agtaaaactta accaaataat aacaaaaaca aaaaaaagta 180

taaaaaaaaa ttaaataaat aatgtaagaa aacttaaaaa aaaaagaaat aaaaaataat 240

ataaatataa ataataatga taaatataat aaaaaaaaaag aaaatataaa taaaaaata 300

aaataaaaca ataataaaaa taattaaaaa ataatatata taaacataaa aataaataaa 360

aaaataaaac aaaaataaaa aatataataa tatatataaa ataataataa tataaaaaaa 420

aaaaataaaa aaaataagaa atacaataaa taataa 456

<210> 10788

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-C6

<400> 10788

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aac 63

<210> 10789

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D1

<400> 10789

ccaacaaaga acaaaacgcg ccaccaagaa gcccaagcac aaaaacaaaa ggaaa 55

<210> 10790

<211> 51

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3059-001-Q1-K1-D10

<400> 10790

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<210> 10791  
<211> 52  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D11

<400> 10791

gtgcgttgcg tcgtgagtgc ccggaatcaa caccgacagt ctgagactga ga 52

<210> 10792  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D6

<400> 10792

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tcgttctcgt cgtgtgcctg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120

gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180

gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgctgg 240

cggcggcgcc ctactacgcc tgggtgtggc agacgagcgc catgtaccat ccgctccggc 300

tacagtgctg ccagcagcag atgatgatga tggacgtgca atcctg 346

<210> 10793  
<211> 160  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-D7

<400> 10793

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cttaaaagga ccccaacctt aaccaaccgg cgcataccaa tgccatatca gcctacacta 120

cgacgaccaa cccacaaaac aaaagaaccc accacagaaa 160

<210> 10794  
<211> 113  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-E11

<400> 10794

cggacgcgtg gggttattca cactaactaa cgacctcctg ctccgatcac gagcggggcgg 60

atttcaacga tggcggctgt gcttaacatc aggaagacgc cgcaggtggt ggc 113

<210> 10795  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G9

<400> 10795

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cccccggtc cttgcagctc ggatccctgc acgtggagtc ttatccatag ccaagatcgt 180

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cgatcaggag tccgtatact atgcgc 266

<210> 10796  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H10

<400> 10796

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ggcctcctgc ccttcgcccc cgctgtcacg cctaccccggt cacgggggca cctgcgcttg 180

cgcgcgcgc gccctctgtc ccgccccggc cggagaatgt gttgccaatc tatcaactca 240

gctaatgcgt tgggagcttc ttcaacgaca tctgatgagg cagtcccagt cccagttgta 300  
cagatagatc aggactcaga ccgtgatgcg accattgtgc agctaagttt tggagatcga 360  
ttggaggcac tacttgacac gatgaaagca ctc 393

<210> 10797

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H12

<400> 10797

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atccggcacc ggtcccaagc cgataaaggg ccagaaggtc accgttcact gcaccggcta 180  
cggaaggat cgtgatctgt tcaagaaatt ttggagcacc aaggaccctg ggcagcagcc 240  
attcagtttc agcattggtc aaggttcagt gatcaaagga tgggacgagg gagttatgac 300  
catgcaagtg ggtgaagttg ctcgatatac gtgcacgcct gattatgctt atggagccgg 360  
cgggttccca gactggggaa tt 382

<210> 10798

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H2

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cccgttgctg tctgcaggat cgccatcgcc gtgctcatag tttctaccct gtcacctat 180  
gcggaggcga ggtactactg ctacgccccg tgcaaggact gccgaactg cagcagctgg 240  
tgcaagggga aagggtaccc caagggcggg cggtgccacc cgaaggacgg cggcggcgac 300  
atcgtgttct gctgctgcga cagggcagac gtcatgaagc tgctagtttc agcagatgcg 360  
aatgcgattc tctgatggac tggcaaacaa ataaacgggg ctggacgcat tgaga 415

<210> 10799  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H4

<400> 10799

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agatattatc cctctttgcy cttcttgccc tttttgtgag cgcaacaaat gcgttcatta 180  
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caatgggctt cgaacaccca gctgtgcaag cctacaggct acaacaagcy cttgcggcga 300  
gcgtcttaca acaaccaatt gcccaattac aacaacaatc cttggcacat ctaaccatac 360  
ataccatcgc aacgcaacag caacaacaat ttctaccagc actgagccaa ctagctgtgg 420  
tgaaccctgt cgcctacttg caacagcagt 450

<210> 10800  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H5

<400> 10800

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aatgtacttt tgggctttta gtatcttatt atcttaagct acctagtaat cagcacttgt 360  
accttaaggt gtgcgttatg gcaagttctt ttagaggggt tgtttggact agcaccat 418

<210> 10801  
<211> 342

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-H6  
  
 <400> 10801  
  
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 tatatatata tatccactgg tgtataattg aaccgtagta taactggcct ggatttaact 240  
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 agtaccttaa tggtcgcgtt atttca 386

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 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-H8  
  
 <400> 10803  
  
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cagattaaga ctggagcacc ctgcagatca gagcgtcttg ccaaatacaa ccagcttctt 360  
aggattgaag aagagcttgg cgctattgct gtctacgcag gtgccaaatt ccgtgc 416

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<211> 410  
<212> DNA  
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<223> Clone ID: LIB3059-060-Q1-K1-H9

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ctattaataa ctgatactat gtttcggaac gctgacattg ctactaggca aacgtacgtg 360  
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<210> 10805  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G8

<400> 10805

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<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-F10  
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gtcatagaca cgacgtccac ggacgatgcc cttggcctgc atatgctggg gtacgaacga 240  
tggaatgacc tg 252

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<211> 375  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-F11  
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aattcgtgcc ccgagggtacc aataagcaac gatgagagaa gcattccacc ttgcatttac 180  
actccccctt taggcttatt gagcccaatc cacatgtggt gaggtggatt gaggggtgtt 240  
aacgaggctt tagggctttt gaggtggatt ggaggtgttt aatgaggctt tagggtttta 300  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-F2  
  
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 ctgcctactc tcagcaacag cagtttcttc cattcaacca actaggttca ttgaactctg 240  
 cttcttattt gcaacaacaa caactacatc tcagccagct acctgctgcc tacccccagc 300  
 aatttcttcc attcaaccaa ctagcagcat tgaactctcc tgcttattta cagcagcaac 360  
 aactactacc attcagccag ctagctggtg tgagccctgc taccttcttg acacaacc 418

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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-F3  
  
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 tacgttgccc ttgattatga acaggagctg gagactgcca ggagcagctc ctctgtcgag 240  
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 cccgaggtgc tgttccaacc atcccttggt ggcattggaat cgcctggcgt acatgaggcc 360  
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cagtgtggct aaatctttcg atgctccaat aaagcttctg tttccaactg cagacgctga 360  
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<223> Clone ID: LIB3059-060-Q1-K1-F8

<400> 10813

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<211> 419  
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<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F9

<400> 10814

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G2

<400> 10815

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tcttttttga cataatggag aagctggggg agtgcttgtc tctggaggac ctccaattca 300  
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<223> Clone ID: LIB3059-060-Q1-K1-G4

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G5

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ggccgagtgc aacctggcca ccatcagcgg cgtcgccgaa tgcccctgga ttctcggcgg 240

cggaacgatg ccctccaagt aactgcgaag agcatagtg atgaggaatg agcttgtagc 300  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F1

<400> 10818

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<210> 10819  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G7

<400> 10819

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<210> 10820  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 10820

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<210> 10821  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D6

<400> 10821

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cctcttacia ctacaacaat tgttgccctt tgtccaactt gctttgacaa acccagcagc 360
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<210> 10822  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D7

<400> 10822

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tgcaacaaca attgctgcaa cagattgtac cagctctgac tcagctagct gtggcaaacc 180

ctgctgccta cttgcaacag ctgcttccat tcaaccaact gactgtgtcg aactctgctg 240

cgtacctaca acagcgacaa cagttactta atccactagc agtgcctaac ccattgggtca 300

ctgccttcct acagcagcaa caattgctac catacagcca gttctctttg atgaaccctg 360

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<210> 10823

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D8

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gaacaaagcc agccccaaga tgaacggtgc atttccgccg tacagatcgg actccacttg 240

cgatatactt gatcttatcc tcagtaagaa tgactcggat ggagattcga gcagccaggt 300

gggcttctta tgcggctcac ctccgatacg cgctgacaac cctgttatcc atgatccaca 360

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atatctcaat actcttatat acatcctcac tctagcatct aaattatcca tattcctata 180  
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 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E11

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 tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
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<210> 10826  
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 <213> Zea mays

<223> unsure at all n locations  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E2

<400> 10827

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<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E3

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c 421

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<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E4

<400> 10829



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<212> DNA  
<213> Zea mays  
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<210> 10831  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-E7  
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<210> 10832

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E8

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 tcacaggcaa aggagctgct tgatcacctg gaaagtgtac tagcaaatga accagtctct 240  
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 gccgagagga tacttgcac agtgaaggag aggggaaagc aggtgatatt cgtattgtgc 360  
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<210> 10833

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E9

<400> 10833

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<212> DNA  
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<223> Clone ID: LIB3059-060-Q1-K1-D4

<400> 10834

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<210> 10835  
<211> 417  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-C11

<400> 10835

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tgattgatta cccgtatgtt gaatgtacat cagcagcaat tcaggccctg acatcattca 360  
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<210> 10836  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<210> 10837  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-C3

<400> 10837

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<210> 10838

<211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-C4  
  
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 gacgagtgcg ccgaggtcga ggaggatggc gacgaggagg aagggggcag cccagggag 180  
 tggctggagt cgggtgtcgg tgacggcttc ccgctgtgtg ggttcgattc actgtatgat 240  
 aagtactgcg agagtatgct ggtgtttcat aagatgatcg cacagctcat gaaggatcca 300  
 gagtcactga acatgtccaa aaagtctcca agatcagcat caaaattggg gtctaccctg 360  
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 cctggaggcg ccgctggacg tggacatccc cggcgggggc cgcgtcgtgg tgctcaacac 240  
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 ccactccatg tgctccccgg gcttctctgt cgactcggcg taccaggta cgtacatcgt 360  
 gcgcggcagc ggccgggtgc aggtggtcgg gcccgacggg aggcgcgtgc tgg 413

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C9

<400> 10840

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gccatgggtg gactctacca gtaccagctg cccagctacc gcaccaaccc ctgtggcgctc 180  
tccgctgcca ttccgcccta ctactgattc atgatatttg ggaaatctcc tctatccatc 240  
tctctctatc tatatatgta ataatgcagt aagacgacac acattatcat gtgtgggtatg 300  
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<210> 10841

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D1

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tgtaatactt caaccgaagg ggcgtttctg caatctttct actaagaaga aatctttctca 120  
ggcgttatgt ctctatatta gcaaagctc atgatagtgc catgaaacag ctgaatggaa 180  
ctcataaagc tcatgtgcac tccatacata tggcttgaaa tacttttctca atat 234

<210> 10842

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D10

<400> 10842

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gttgccattc tgtcctcgct gtctccatgc tacgaagccg gcggctgcat cgggaaaccc 180  
aagaagtcac cgtcgccgcc gagaaggcca tacctctcgt cctattccga ggaccaccag 240  
aactgccgct tgatctgtag ctcaagggt ttcaaggacg gtggctgggtg tgacgaaagc 300

gtcgagcaca aagtgtgctg ctgctcccat tagaaatata atatcgtatg ttatgttgat 360  
gcatatatat gcatcatcca tctacctgtg tggtgcaaaa ttctgaataa aatctacctg 420  
tgtggtgc 428

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-060-Q1-K1-D11  
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gcgtgttgag actggtatca tcaagcctgg tatggttggt acctttgggt ctagtggcct 180  
tactactgag gtgaagtctg ttgaaatgca ccatgaggct ctccaggagg cccttctctgg 240  
tgacaatggt ggcttcaatg ttaagaatgt tgctgtgaag gatctgaagc gtgggtatgt 300  
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<210> 10844  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gagttaaagg ctcttttggc tgattcggaa cgaagtaagc ttttgagaag actcagtga 120  
gcaaatcaat ataaccgatt cctcaagaga cagttgcaaa taaaggatga tgcagtcgta 180  
aaattcaaag gtgaacttgc tgttttggaa ctagaactgc aggctctggt tggcctagct 240  
gaagagggtg ctaattttga tgttccgtta gggctctanga agataaacgg aaaatatatt 300  
caatctcatc ttctcttcag attagaagct gtncatgata agaatatgga acaagtaaag 360

<210> 10845  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-D2  
  
 <400> 10845  
  
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 aaagtgcact ccccttaaat aaccaaagtt tactaccctt aaaatccaac ctttaccctat 180  
 ttttatagcc tccccaaaat taaattttatt gcccgctttt taaaaacctc atcaattgaa 240  
 aaacccttgg ctttcccaaa cttatcccct ttcaaaaaaa tcaccctttt cccaacctgc 300  
 ataatctcaa aaaaccccccc cccattagc ctttccaaca atttgccacac ttcaattccc 360  
 aacatggcac cccctt 376

<210> 10846  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
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 gtcggcgccc gcctctccgg cgtcgtctac gagcacctcg tcgccggccc ggccgccgag 240  
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 caagagcagc aggacgtcgt cgtcgtcccc gtcctcggga atcttctgaa taaaaaaaaac 360  
 agcttgcatg cgtgctcaat tgttgggtgt cgtggtcgat catgaataga attaata 416

<210> 10847  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-060-Q1-K1-A6



<400> 10847

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atcctttttc cggtttcaag tttgttggtg aagagagggg tcagtgcctt tctgggaagg 180

tttcttacia caaacgatct gacaacgttc tttctttgag cataccactg catgaggcaa 240

ctaataaaga gcagctagaa gcttttaatg agaagaaagc tgcaatgaac ttggatggaa 300

aagaagtgtc taatgaggat attgtcaggc ctagagtccc attggaggca tgcttgga 360

gtttttcagg gccagaggag attccagatt tttatagcac tgcattaaat tc 412

<210> 10848

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A9

<400> 10848

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gagatcacag aggacgtcca gttgctcgag gggtagtcc aggcctccgg gggatcctgg 180

gagtcgagct tgactaggcg aggacgttgt ggtgggcgtg ctagaggcag gaaacctcgg 240

aaaactgtag taaccgtaat tgtacaggag gaggaagagg aggaggtaga ggttagccca 300

ccgccaaaac ctgctggcac tggggaatag gaagccgatg gcaggggtat gatcgggtgg 360

ggcagaacaa caaggcgggtg tcacagagcg agatgttcgt caggtaacag catggctact 420

<210> 10849

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B1

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gtgagcctgg actgcgccgg gttcagcaag accatgtcga cggcgctgga ggcgacgcgg 120

cccggcggga aggtgtgcct ggtcgggatg ggccacaacg agatgacgct gccctgacg 180  
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 tttcgttttt 310

<210> 10850  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-060-Q1-K1-B10  
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 caccggtacc aggcgatctt cggcttggtc ctccagtcca tcctgcagca gcagccgcaa 180  
 agcggccagg tcgcggggct gttggcggcg cagatagcgc agcaactgac ggcgatgtgc 240  
 ggctgcagc agccgactcc atgcccctac gctgctgccg gcggtgtccc cactgaaga 300  
 aactatgtgc tgtagtatag ccgctggcta gctagctagt tgagtcattt agcggcgatg 360  
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 g 421

<210> 10851  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-060-Q1-K1-B3  
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 tcagatgttg actaccgctg cttegtcagc ggctcgcct gggccacgga cgaccactcc 180  
 ctgcacaacg cctttaacac ctacggcgag gtccttcagt ccaagatcat cctcgatcgg 240  
 gagacgcaga ggtcccgcg cttcggttc gtcaccttct ccacggagga ggcgatgcgg 300

aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacg 358

<210> 10852

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B4

<400> 10852

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gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180

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tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300

agctggacgg ccgcaacatc accgtcaacg agggccagtc ccgcggcggc cgtggaggcg 360

gcggcgggtg gtacgggtgt ggccgtggag gcggcggcta cggcgggtggc gggcgccgtg 420

<210> 10853

<211> 410

<212> DNA

<213> Zea mays

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<400> 10853

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ggcgacgtgg tggccatgcc ggccggcgcc cagcactggc tgtacaacga cggcgacgcg 180

ccgcttgtgg cggctctacgt cttcgacgag aacaacaaca tcaaccagct cgagccttcc 240

atgaggaaat tcttgctggc tgggggcttc agcaaggggc agccccactt cgccgagaac 300

atcttcaaag ggatcgacgc ccggttcctg agcgaagccc tgggcgtcag catgcacgtc 360

gccgagaagc tgcagagccg gcgtgaccag cgaggcgaga tcgtccgcgt 410

<210> 10854

<211> 266

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B6

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 agacgataca tgaaaaacaa taggagagtt taagctgttg tcaacgttgc cgacgccgat 180  
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<210> 10855  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B7

<400> 10855

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 ctaccagcag taccgcacat gccaggacgc cgtgtgagag gcaaaatgca gtgaggaatt 180  
 ccaactccaag ctctccggtt tcagggtcac gagccgtatg cacatccctg tttgctgctg 240  
 aaccacact tgacgcggcc ggccggggat gcgtcagatc caattaatat aatccaccac 300  
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 taaagatata tgtaacagct ggactggctc ttccat 396

<210> 10856  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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gcggcggtgt gcgacatgag caacgagcag ttcatgtcgt gccagcccgc ggcgccaag 240  
acgacggacc cgtcggacgc gccgtcgcag gcgtgctgcg acgcgctggc ggaggcggac 300  
ctcaagtgcc tgtgcggtca caagaactcg ccgtggatgg gcgtctacaa catcgacccc 360  
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<210> 10857

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B9

<400> 10857

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acgaccactc cctccacaac gccttcagca cctacggcga ggtcctcgag tccaagatca 240  
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aggcgatgcg gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca 360  
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<210> 10858

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A3

<400> 10858

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agtagaatgg aggtcccatc tggtgccacc accgaagaca ggactgatcg aactgagggt 300  
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<210> 10859  
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 <213> Zea mays  
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 aaacccaatt cttcaaccct ataggatcca acaggcaatc gcagctggca tcttaccttt 240  
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<210> 10860  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-H12  
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gcacaaaaca tcaaggcaca tcaactacga caacttgtgc tagcaaacct tgctgcctac 360  
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<210> 10861  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-H2  
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<210> 10862  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-H3  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tggtgaaaac cccaatgtct tcaaacccta caaggatcca tacangtcaa tcgcaagcaa 180  
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<210> 10864  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H5

<400> 10864

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aagcttacat caaagccaaa tgaaagcctc tatgagcaga agcccagga accagctccc 240  
gtcctgccat catcggtgat tgagagtact acaactagga gcaaatacaca tacttcccga 300  
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<210> 10865  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3059-059-Q1-K1-H6

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aaatgaatgg cagagttgct gattctatgc ttgtgaatac tgcacttatg ttgatctata 180  
tcactaagtt cttttgggtg gaatctggat attggtgtac tatggacatt gctcatgata 240  
gagctggttt ctatatctgc tgcggatgct tgatatgggt tccatccata ttacttncc 300  
ctggaatgta ccttgtaaac caccctttga atttgggccc ccaactagca ctctcaattc 360  
ttctagctgg a 371

<210> 10866

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-H7

<400> 10866

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tgcgcggggc tgcagggctt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180  
ggcgggctgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgggc 240  
gcgccctact acgccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300  
tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgagca gctgcagatg 360  
atgatgcagc tngagcgtgc cgctgccgnc agcagcagcc tgtacgagcc agctctgatg 420  
cagcagcagc agcagc 436

<210> 10867

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H8

<400> 10867

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cagtggcagc taccaacaag gtcaagctgg cagcgcccaa cagtaggcac aacctcagag 120  
tgatctgcct gaataagtac tcgtagactg taataattaa acaaagcttg ctcatgggta 180  
aaaaaaaaatg atcaaatact acaagatcca gaaggaaata caatgcagca tgtagctgt 240  
ataaccctag tacgtccaa 259

<210> 10868

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H9

<400> 10868

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tcgaaagagg tctcgaccag gagagaatcc taagccacga ccaaaggacc gccagcttat 120  
tcaggatcgt ataaaggagc tccgggaact cgtacctaat ggggcaaagt attgatgcat 180  
tactggagaa gaccattaag cacatgcttt tcttgcaaag tgtgacaaag catgcagata 240  
acctcaagga ctcaaacaaa totgatattc ttggtggtga gaatgggtcca ctcaaagact 300  
acttcaagg tggtgcaact tgggccttgg atgttggttag tcgatctatg acgtgcccaa 360  
tcattgtcga ggatctcgag cggcctcgtc agatgcttgt ggagatgctt tgtgaggata 420  
gaggtatctt 430

<210> 10869

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A10

<400> 10869

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gctcctagct ctttgtgcaa ccgccactag tgctacccat atcccagggc acttgtcacc 120  
actactgatg ccattgggta ccatgaaccc atggatgcag tactgcatga agcaacaggg 180  
ggttgccaac ttgctagcgt ggccgaccct gatgctgcag caactgttgg ccttaccgct 240

tcagccgtgc cagatgccaa tgatgatgcc aggtatgatg ccaccgatga caatgatgcc 300  
 gatgccgaat atgatgccat cgatgatggg gccgactatg aagtcaccaa tacgatggct 360  
 aatatgatgc caccgatgat gatgccaaac atggtttcac caatgatga 409

<210> 10870

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A11

<400> 10870

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 tcatttttggg cggaggcact ggatctcagc tctttcctct gacaagcaca agagctacgc 180  
 ctgctgtacc tgttggagga tgttacaggc ttattgatat ccctatgagt aactgcttca 240  
 acagtgggat aaataagata tttgtgatga gtcagttcaa ttctacttcg cttaccgcc 300  
 atattcatcg tacatacctt gaaggcgga tcaactttgc tgatggatct gtacaggtat 360  
 tagcggctac acaaatgcct gaagagccag ctggatgggt ccagggtaca gcagactcta 420  
 tca 423

<210> 10871

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A12

<400> 10871

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 gaagctcata ctgcctttct actccttcac gctgttctgc atcatcctcc cgatgactat 120  
 gttcgtgccg gaggccgac tccccgactg ggtgggtgtg tacgtcccgg ccctgatgtc 180  
 cctgctgaac atcctgccgt gcccgaagtc gatcccttc atcatgccgt acctgctctt 240  
 cgagaacacc atgtccgtga ccaagttcaa cgcgatgac tccgggctgt tccagctggg 300  
 gagcgcgtac gagtgggtgg tgaccaagaa gtcggggccg tcgtcagatg gcgacctcat 360

cgcgctggcc ccgaccaagg agcctgtgaa acactcgacg 400

<210> 10872  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G9

<400> 10872

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ggcctttttt ttgagataac aaggaggaga ggaggagatg gcggtcacga tcacgtgggt 120  
gaaggcgagg cagatcttcg acagccgcgg caacccacc gtcgaggtgg acgtgggcct 180  
tagcgacggc agctacgca ggggggccgt acccagcggc gcatccactg ggatatatga 240  
ggccttggag ttgagggatg gaggatctga ttatcttggc aagggtgttc ttaaggctgt 300  
cagcaatgta aataacatta ttggaccagc aattgttga aaggaccca ctgagcatgt 360  
tgagattgac aacttcatgg tccaacagct tgatgggacc tccaatgagt ggggctgggtg 420  
caa 423

<210> 10873  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F5

<400> 10873

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ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag caacaactac 120  
taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa caacagttgt 180  
tgccgttcta cctgcacgct atgcctaacg ctggcaccct cttacaactg caacaattgc 240  
tgccattcaa ccaacttgc ttgacaaact caacagtgtt ctaccaacaa cccatcattg 300  
gtggtgccct cttttagatt gcttatgagt tatagttcaa taatgaagtt ttttggatga 360  
tgtttgtggc gtcccagaaa taagaaagta catttctaga ttctt 405

<210> 10874  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-F6  
  
 <400> 10874  
  
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 gccactctgc aacccccctc ctctcgagca gagcagtcga gcagagcggc agcctcggcg 120  
 cgcgcggcg ccagccgaca tgactgccgg tcagtgcggc aacatccagg accaggaggc 180  
 agctcctggc gccgacctct acgccgtgct cgggctcaac agggagtga cgcacgccga 240  
 gctcagggtc gcgtaccgga ggctcgccat gatatggcat ccggacaggt gctcggcgtc 300  
 cggcagctcg gcgcgcgtgg aggaggccaa ggagcgggtc caggagatcc agggcgccta 360  
 ctccgtgctc tccgactcca acaagcggct cctctacgac gtcggcgctc acgacagcga 420  
 ggacgacgac gctgacctgt c 441

<210> 10875  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-F7  
  
 <400> 10875  
  
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 aggtgacaac atgattgaga ggtccaccaa ccttgactgg tacaagggcc caaccctact 120  
 tgaggctttg gacttgatca atgagccgaa gaggccttca gacaagcccc tgcgtctccc 180  
 cctacaggat gtgtacaaga ttgggtggtat tggaactgtt cctggtgggc gtgttgagac 240  
 tggatatcatc aagcctggta tgggtgttac ctttggctct agtggcctta ctactgaggt 300  
 gaagtctgtt gaaatgcacc atgaggctct ccaggaggcc cttcctgggtg acaatgttgg 360  
 cttcaatgtt aagaatgttg ctgtgaagga tctgaagcgt gggtatgt 408

<210> 10876  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F8

<400> 10876

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tagctgtgca catccctatg gacgactctt acgacactgc tgataacgat gttcatactg 120  
atcttcattg gaatgggtcac tgccatctac aacgcgttca actactgatg tcaattattc 180  
ggcacgctgt tctttaagct ctgggtgacc tttcatgtga tcgcgcatct ttacgctctc 240  
ctcaaggggc tgaacaggac gccgaccatg acgcctgcc a ttgccattgt ctgggtctatc 300  
atcctgtctc tgatcttggt gctgat 326

<210> 10877

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F9

<400> 10877

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gtctagcagc agccaccgcc gcctcatcct cgcagccgcc gtectgtctc ccgtgtctgc 120  
ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
gtgcacggcg ctgagcatcc tcatggacgg cgcgatccc cggggcccgg acgcgcagct 360  
ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgc 420  
cacctcgc 428

<210> 10878

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G1

<400> 10878

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ctagtctcgcg ctctggagaa gctcatcgca gcgctctccg ctcccgggac tggctccgcc 120  
ctcaggccgg tggcagtcgc cggcggcctc cgcggctaca acaccggcgc tccgctccga 180  
cgctacgagg gggccgagtc ggaagacgat agcgtccgcg agtacgatgg gcggcacggc 240  
ggccgggact acgctgtgcc cagcctgttc tcagatattt tccgtgatcc gcttagtgcg 300  
ccgcacagca ttggccgtct gctgaacctt gtggacgact tggcgggtggc ggcgccaggt 360  
cgtgcgggtgc gccgtggctg gaacgcgaag gaggacgagg aggcgctgca ccttgagggtg 420  
gacatgccag gcctggggaa ggagcacgt 449

<210> 10879  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G10

<400> 10879

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaggccagcc gtttttaaagg ttccaagttt acttaccctt ccttccaact tcttaacttt 180  
tctatagggg accctaaata aaatccattg gccgtatttt taaaaccttt taactggaaa 240  
aaccttgctt ttccccaatt taatcccctt gtcctaaatc cccttttcgc cagttgcatt 300  
attaccaaat aggcccatat cattagcctt tcaaaaaatt tgccaaacct gaatggcaaa 360  
tggaaccccc c 371

<210> 10880  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G11

<400> 10880

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gccgccgccg acgaaactat cgacaccatc cacatccgtc gcctagagtg ttccgaccac 120  
gagaggggct tcgtcgccct tctctcccag ctctccccct gcccggaact caccacatcc 180

gtgttcgcca cgcgcttcgc cgagctcgcg gcgcagggcg acgaccacat catcctcgtg 240  
 gccgaggacc cctccgcctc ggaccggcgg atcctcgca caggggtgcct cttcgtggag 300  
 cgtaagttcc tgcgaggctg cggcaagggtg gggcacgtgg aggacgtggt ggtcgatgcc 360  
 gccgcgcgcg gcaggggtct cgggctccgc atcgtgcgcc gcctcgtgga gatctccagg 420  
 gacgccggc 429

<210> 10881  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G2

<400> 10881

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 tctcagcaac agcagtttct tccattcaac caactagctg cattgaactc tgctgcttat 180  
 ttgcaacaac aactaccatt cagccagcta gctgctgcct accccaaca atttcttcca 240  
 ttcaaccaac tggcatcatt gaactctgct gcttatttac agcagcaaca actactacca 300  
 ttcagccagc tagctgggtg gagccctgct gccttcttga cacaacaaca gttattgccg 360  
 ttctacctgc acgctgcgcc taacgctggc accctcttac aactgcaaca att 413

<210> 10882  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G3

<400> 10882

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 gtcttgcaag cagtgggaaa gaatttatct tgaaaatatt gaagccagtg ttgctgtcct 120  
 gagcaaagtt gtgattgatt ggagggatgt gtctcctaag ctcagttctg aagctctcaa 180  
 ggcaacagtg aagaacttta aggctaagaa tgaggctgcg ctggagtcca caacagatgc 240  
 tggaaagcat gcatttatca aagaagcaga caagcactgc aaggcgatct ttgaaagct 300



gacccgtggc gccacctgcc tgaagagcaa gctgggtggc atcgcgctcg cttgtgctgc 360  
tagttacgtg ctgtctgctg gcatggacct cgagtaggtc caggcgatgg tctcatcgca 420  
cctgtcgttc taaaca 436

<210> 10883  
<211> 421  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-G4  
  
<400> 10883

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gctccgtcgg ctccgcctgg gcacaggcgc ctccggcgag gcgggtcctg ccgcggcggc 120  
ggcggcgggtg agggcgtagc acgagcgggt ggtggaccac tacaacaacc cgcggaacgt 180  
aggttccttc gacaaggacg accccaacgt cggcactggg ttggtcggcg cgccagcctg 240  
cggcgacgtc acgaagctgc agatccgcgt cgacgagaac tccggcatga tcgtcgaccc 300  
ctgcttcaag actttcggct gcggctccgt catagcgtcc tcgtccgtcg ctactgaatg 360  
ggtgaaggga aaaccaatgg atgaagtttt gacaatcagg aacacggaga tcgcaagca 420  
c 421

<210> 10884  
<211> 366  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-G5  
  
<400> 10884

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tcttgcgctg gttcaaggag gaagggccgc agagcaggac gaccagggcg cgttcggggc 120  
ctcgcgtgga gggagtggca gaggccacgt cgtgccacga cgacgacgta tcctgcgagg 180  
cgaagggttg ccgggatacc accgtggacg agattgtgag gcgtagcctg gataggaaca 240  
tgaagtctat actgaggagg gccacggcgt ccgtggacct gaccaatgtt aagctgctcg 300  
ttacgagccc cagctccaag agcttgctt gctgaactca caatgacaca agtgctcagt 360

tttccc

366

<210> 10885

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G6

<400> 10885

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ctccgtgctg acatagcagg gcgtacatat gcttgtgcat atgcggcggt ggaccgttg 180

tagtacaaga tatgaatgtc tcgagatatg tgtactgtc tatgcctagg ctgatgtctg 240

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tgtctgagca gatg 314

<210> 10886

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G7

<400> 10886

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ttacaaccac actctctgtg atgaacttct tagcatttta ctgcctgcta aacccccctt 120

ccatccacgc cagttcgcga catgtgcagt tgttggtaac tcaggagatc tcttgaaaac 180

agagtttgga caagagattg atgcgcatga cgccgtgttt cgggacaatg aggcacctgt 240

caataagaaa tatgcaaac atgttggtt gaaaagagac tttcgactgg ttgtccgggg 300

tgctgctcga aatatggcac caatactgaa gggctcctgt aatgctccga tgaggcactt 360

atcattaaaa gtttgacgca caaagaaatc aatgcggtga taaaggaact tccaaatcct 420

gtctaccttt ttcaaggtat agtt 444

<210> 10887

<211> 315

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-G8  
  
 <400> 10887  
  
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 gcgtgcggat gccgacgggc aacgatgggt ggtgcgccgg cctgaggtcg cgggcggcgg 180  
 atctcgccgg cctcgagatg gccaacctgc gcggcggtcg cggggggctc ttgcgcgcga 240  
 gcccgcgcta cgggcgcttg caagccacgg cggcagttga ccctgaagat attccattgg 300  
 aagaggttca agtta 315

<210> 10888  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-059-Q1-K1-F4  
  
 <400> 10888  
  
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 aacgtctgcg ccatggaggt gaggcacagc gtcgaacggc tggaccaggc cgacgtctac 180  
 agccctgggg ctgggaggat cacacgcctc accagccaca agttccccgt cctcaacctc 240  
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 aacttcaacg cccacagcgc catgtacggc atcaggggca gtgcaagggt ccaggtcgcc 360  
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 cc 422

<210> 10889  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-E11

<400> 10889

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tattgaggct gtgaagatgt caaagcgtgc gggctggggt gtgatgacta gtcataaggag 180

tggtgagact gaggacactt tcattgctga tctggcagtt ggtttgtcca cgggtcagat 240

taagactgga gcacctgca gatcagagcg tcttgccaaa tacaaccagc ttcttaggat 300

tgaagaagag cttggcgcta ttgctgtcta cgcaggtgcc aaattccgtg cacctgtgga 360

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ttactgc 427

<210> 10890

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E2

<400> 10890

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ccgggacctc ctgcgtgccg ggggtgggcca tcccgcacaa cccgctcccg agctgccgct 180

ggtagctgac cagccggacc tgcggcatcg ggccgcgcct cccgtggccg gagctgaaga 240

ggagatgctg ccgggagctg gcggacatcc cggcgtactg ccggtgcacg gcgctgagca 300

tcctcatgga cggcgcgatc ccgccgggcc cggacgcgca gctggagggc cgcctagagg 360

acctgccggg ctgcccgcgg gaggtgcaga ggggattcgc cgtcaccctc gtcacggagg 420

ccgagtgcaa cctggccacc atcagc 446

<210> 10891

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E3

<400> 10891

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 acagaacata ttgtaagcta tgttcatgag actagtccag aacgctctga tgatgcgctg 180  
 gacgactatc atccaggagc tgtcaatcct ttcgagcaac ttgaactgtt cataaaggta 240  
 gactacgagg aatacgacaa gcaatgctca ctgcattaaa gaaagcatag aaaggcgaaa 300  
 tcagctgaca gtgctaggct attccatgca ctgtcaaggc ctacgagctg gtgccaaact 360  
 attgatccaa agtgatcacc tgt 383

<210> 10892

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E4

<400> 10892

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 aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaggac aaaaaaaaag aaggactcaa aagaaaaaaa caacatatta aagagcaaaa 180  
 gactgcaata actgaacaga aaagtgaaaa aaacggaacc tgtgaaaaaa taggaagacc 240  
 tggaaaaaac gttagtgcac caaactgagc acattgaaga taaatcacgt tttagaaagc 300  
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<210> 10893

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E7

<400> 10893

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agagaaaggc agccactaaa ggagaatggg aggcaagttg ttgtgaatga acagaagggt 300  
gataaattcc ttacacaaat gttgaaattg aactccacga tactcaggta ctccagaatg 360  
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agacgacgcc ggagaggccg gcgccgacca tgggccccac ccagtacacc cattggtgtc 360  
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cc 422

<210> 10895  
<211> 425  
<212> DNA  
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<223> Clone ID: LIB3059-059-Q1-K1-F1  
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cgggtggtggc cgtggaggcg gcggttacgg cgggtggcgg cgccgtgatg gcggcgggcg 180  
ctacggcggt ggcgggcggt acggtggcgg cggcggttac tgtggtggtg gcggcgggcta 240  
cggcggtggc aaccgtggcg gcggttacgg caactccgac gggaactgga ggaactgagc 300

ggtagggggccc gcgcgggtcaa gttatcctgt tcgctgccgt gatgtttacc ctagtccaga 360  
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 cgctc 425

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 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-F12  
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 ggatgatccc actgaagctg ctccagcaga tgaagaaatg tgaccgcaaa acattgatac 180  
 ggaagacaat gtattatgca ggaaagagga agcaaggctc aaggaagagc actggcttaa 240  
 tggaaccctt agaactagca agaggaagta ttaattttcc aacaaatcag aatatggaga 300  
 aaatgggact cacgctactc ctgttcaacc aaggcaacca atctatatag atgcaacgga 360  
 gtccgaagag gcgaaattgc tagcccagaa ttaaccata ctggaatatg attc 414

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-059-Q1-K1-F2  
 <400> 10897

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 aggaagtoga gcgttcgggc gcaagatgog ttgtctggca tgctgttcct tgaccatttg 180  
 tgctgctagt atgtactgtt ataagctgcc ctagaagttg cagcaaact ttttatgaac 240  
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<210> 10898

<211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-F3  
  
 <400> 10898  
  
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 ctgattgaac atattatttg taagattatt ctctgaagca catgtataga ggatttagaa 180  
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 aaacctctga caagaattga aaagttaag tcttcaacta tgaaaca 287

<210> 10899  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-E10  
  
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 tccatgccta tgcaaatatg ttaacaagga agtagagaag gtatgggtgca tggagaaggt 240  
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 tttaatttga gatttgtaac atgtgagaga ctattgagaa taatatgtat ggagtaatat 420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-C12  
  
 <400> 10900



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acaattcaat ccgtaggtct ggtgctatag taaacagcgg tggcgggtggc ggtagcgcct 180  
gaacgaacaa ggcgaaagaa attattgtcg gcgaaagggc cgggacctgg accagacctt 240  
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agccgcggtg gtaggggttg gcctggccgc ccgggcggca gttgtagtag ctggcgccgc 360  
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<210> 10901

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C3

<400> 10901

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cactaactgt ggtaagatca ggttctactg ctgggatacc gcatggcaag agaagtttgg 180  
tggcctcagg gatggatact atatccatgg ccagtgtgcg atcatcatgt ttgatgtaac 240  
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aaacatcccc attgtcctct gcggtaataa ggttgatgtg aagaacaggc aggtcaaagc 360  
caagcaggtt actttocaca ggaagaagaa tctgcagtac tatgaaattt ctgccaaagag 420  
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<210> 10902

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C4

<400> 10902

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atggaagtga cagcattgag agtgctaata aggagattgc cctgtggttc cccgagggcc 180  
ctgctgattg gcagagcagc cagcaccctt ggatctacga gaagtaaaca tggaaagttt 240  
cacatcaaac cttgagagcc agaggaagca tgtcaccatt tgtgcttttag caatgttttc 300  
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<210> 10903  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-C6  
<400> 10903

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cactgcccac atcatatctg ctagtatagc gggatgatg gttcttgctt ctgcctactc 180  
gcatgagttg ccacgatatg gtcttgaagt tggctgacc aactatgcag ctgcctactg 240  
cactggcctt ctgttggttc gccgtgtgct caagatccgt ggtttggtac aggagtacga 300  
gggcaatgtt gagggcaactg gtgaagactt ctctgttgag ccagctgatg agaggaagcc 360  
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tgccctcaag ggagcattgg at 442

<210> 10904  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-C7  
<400> 10904

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tgttgctgaa cctagctcga tatgcaaact tcaggctgat ctccccattg ccaggaggca 180  
ctctcttcag cgtttccttg agaaacgccg tgacaggggc gtgagcaaag ctccatacag 240

ccccgctaag tcgtccgatg gcatggagtc accgaggatt gaggtgacag cggaggggcaa 300  
ggcccagtaa cttgaaaggt ccccgogaag tcccatcggt gaaggctgac gttgtgggaa 360  
ggggcagggga catgcttgtg ttgcctttat gttatgtggc ggcggcagcg tggaaccgca 420  
ctaataatgt ggaccggaac c 441

<210> 10905  
<211> 384  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-D10  
<400> 10905

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gatgatgacc cgatatcaag gctacagcta gcggacggta ctgccatttc agaagctgca 240  
gtgaacgcca agttccttgt tgagcacgag gagggttaca ttccacatct agctgcactt 300  
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aacctggtgt tacgatcgag agat 384

<210> 10906  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-059-Q1-K1-D11  
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ccgccccaa gccgggcgct gagcgcgctc ccgtctccct cgacctctac aaccagggat 240  
ccgagactgc ctatgatgtg tcaattaatg acgactcttg gccaacacaa gcatttgagc 300  
ttgtcactgg agagaaatcg aagacattgg aaaggcttga ccctggtgcc actgctacac 360

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cgtacc 426

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<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-D12  
  
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gggtctgccc gttgccgcga cggtgaactg cgcggaaca acgggcgcca agaacctcta 180  
catcatctcc gtcaagggca tcaagggccg cctcaaccgc ctcccgccg cctgcgttgg 240  
cgacatggtc atggccaccg tcaagaaggg gaagcccgac ctccaggaaga aggtgatgcc 300  
cgccgtcatc gtccgccagc gcaagccgtg gcgcgcgaag gacggtgtct acatgtactt 360  
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tggaacctatc 430

<210> 10908  
<211> 433  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-059-Q1-K1-D4  
  
<400> 10908

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gacattggcc gtcagctgct gacctatgga cgaagaattc ctacccccga gctttttgca 240  
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caggatgttg ctattgctgc gatggggccg atccaaggac ttccagacta caactgggtc 360  
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433

<210> 10909

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-D7

<400> 10909

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caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc ttcggtatgt 180

gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240

ttatcacctt tggttctcca acaatcatca gccctattac atcagttacc tttggtgcat 300

ttattggcac aaaacatcag ggcaacaaca ctacaacaac ttgtgctagc aaaccttgct 360

gcctactctc agcaacagca gtttcttcca ttcaaccaac tagctgcatt gaactctgct 420

tcttatttgc aacaacaac 439

<210> 10910

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-D8

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gtttgctcct agaccagtg tcaactgacca gtccaagaat acaatattct ctaatgcctt 180

atcaagccca gtgcgcagga gtctccagaa ctctcatacc actcaaggty ctggcaatgg 240

aggccggaat gcagaagcaa acttagcagg tgcaaataga gaggccaatt ctacaagctc 300

caacgacact tctatggata tggtttcaga cacgaatgaa ttctaccagt gatttgcagt 360

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<210> 10911  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-D9  
  
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gcgggagctc ggcgtcgccc cgcggaagct cgccaaccac gcattcgctc tcggcgccgg  180
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gatattggat cgcacaaatt ggaagaccaa catgctgaca gctctcttgg ttccttacat  300
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<210> 10912  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-059-Q1-K1-A8  
  
 <400> 10912

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gctgaggtct aaggteccaa cagcgctctc gaaatggcag tttgatctgg tcctagctag  180
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aattaagttt tgccgagaca agctatatgt accggatgaa agtgtgggtc cttattgtat  300
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<210> 10913

<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A9

<400> 10913

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agtactatct ggaactgcag ttagagaaag gatcatccgt gctttcctgg ttgaagagca 360  
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gtaactctg 429

<210> 10914  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B10

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ggcgagggca agcgtggcaa gaagaagggc aagaagagcg tggagacgta caagatctac 300  
atcttcaagg tgctgaagca ggtgcacccg gacatcggca tctcctcaa ggccatgtcc 360  
atcatgaact cttcatcaa cgacatcttc gagaagctgg ccggcgaggc cgtcaagctc 420  
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<210> 10915  
<211> 431  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B12

<400> 10915

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gatcctgcgc gagtgtgac cactgaactc aacacctgac tatactccat cccggcacgg 240  
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actctcactt gctgacaagg ccaaatacag tgtaaggaag attctaggat ttagagatgc 360  
atgcgcccct tcacatccac accatcaggt catggcctaa aagagtgtag ctgccagcct 420  
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<210> 10916

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B2

<400> 10916

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cagcggcact agcattagcc gttgaagttt ctgatttaga ttttattggg acgcctgaag 360  
aagcagcttc ttttgtttca aagaaattgg aataccttgt atccagccga ccaactgcag 420  
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<210> 10917

<211> 441

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3059-059-Q1-K1-B6

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acaattactt ggagaagaaa tagacgaagt taatggaaag gaagagaaac ggacgcgtc 360  
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<210> 10918

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B7

<400> 10918

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gcgaaaatgg tcttgagcta aagcaagaga ttcagaagca atttagaaac attagtgcaa 120  
ttatggactg tgttggatgc gagaagtgcc gactgtgggg aaagctccaa gttcatggtc 180  
ttggaactgc actgaaaatt cttttctctg ttgatgggga cagccatatg aatcagccat 240  
tgcagctgca gcgaaatgag gtcattgcat tgttcaatct tctgaacagg ctctcagagt 300  
ctgtcaaatt tgtacatgaa aaaggatcat caattgaaga agtcattgag gaacagatcc 360  
cttcaacggt tcaaaagagt gtttccatgc cgaatcttaa actggacttc ctctgagatg 420  
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<210> 10919

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B8

<400> 10919

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aagagcagag tgagatcgtc gtcagcgagc ccagcagata cgagagagag gatggcggac 120

atcgcgttgc tgggtggcgga gcagttcgag aagacggcaa ggcgaggcgc ccccggcggg 180

gacagcggca gcagcagcgg gagcggcggc gagacaagga acttcggggc cgtggccaag 240

gtgtggagct cgtgggtgga gtccgccttc gtcgtcgcgt ccggggtcag attcacgcgc 300

gcggtgcagc tggagcccaa gaccgggctc gcgctggccg ctgccgacgg ccttttttcc 360

gcctagcttc ctgcctgctt ccatgtcttt ctctgagca gtgccagtga tcgagcgagt 420

cct 423

<210> 10920

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B9

<400> 10920

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tggctggtga atccctggaa ataccccaaa caaatTTTga atcgagagaat caacctcata 180

atgacgatgt caacattgag aaacagacaa ttacgagtag cacactctca ccaaatgggtg 240

ccaaggggca aaaggagct caaaggagaa accagaccaa aaaaaggaat caaagaaaaa 300

tccttggaaga tgctgacctt gcatgccagc ctggagttag aaaaagctca agaacacgct 360

caaggccttt ggagtattgg cttggtgaaa gattactata tgggcctata catgacaatt 420

tgcatgga 428

<210> 10921

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-H2

<400> 10921

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aatctagaaa atatnactcc tatacatagc cacacctatt cccgtatcca ctgatgcac 120  
caagcccatg ccagctgtac agaaccgcga gtatatataa tacctcaata ctggccact 180  
tcgtagatth cctcatgcat tacagtagtc tcaatgcac tccctactaa tggggtaact 240  
accagaatth cccataaccag tgttttcaag cctcatgct ggtgaaacc tagcttctct 300  
accatgctaa accctgctat gcattccact atatcctgct gtagc 345

<210> 10922

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H3

<400> 10922

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gaccctgggc ggcgggcgat ccccggtgg cgcgcttctt aacctgcgc cgcgcgcaac 120  
ccgggggtggc cccaatccgt tgcccgggct gcgcgtcggc tctgggtgcc gtcacataac 180  
tattggttcc gcggaagcaa gcccgcgccc caacggcccc gtttcccaag ggtgctgatt 240  
tatttttccc ggcagtaatc tcgaaca 267

<210> 10923

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H4

<400> 10923

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caatgagatt caagaaaaag ccggcttgcc agacagacta ccaggccagg ataaaggctg 120  
ttaaccaag aaaaaacaag tacaacacac ccaaatacag atttggtgtg cgatttacca 180  
acaaggacat cactgcccac atcatatctg ctagtatagc ggtgatatg gttcttgctt 240  
ctgcctactc gcatgagttg ccacgatatg gtcttgaagt tggctcgacc aactatgcag 300  
ctgcctactg cactggcctt ctgttggtc gccgtgtgct caagatccgt gggttggtac 360

aggagta

367

<210> 10924  
<211> 424  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-058-Q1-K1-H5  
  
<400> 10924

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ttcttgaatg ctcttatctg ggggcaaaag tcctcaggtg ctgttccatt caccaccatg 120  
tttgctcttg tcctcctttg gtccggtatt tcagtacctt tggtttttgt tgggaagcttc 180  
cttggtctca agaaacctac cattgaagat ccagtgaaga caaacaagat accaagggca 240  
aatccctgag caggcctggt acatgaaccc aatcttctcg attctaactg gagggatcct 300  
tccatttggt gctgtcttca tcgaactctt ctttatcctt acttccatct ggctgcacca 360  
gttctactac atctttgggt tcctcttcct tgtgttcctg attctcatcg tgacatgtgc 420  
tgag 424

<210> 10925  
<211> 454  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-058-Q1-K1-H6  
  
<400> 10925

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atttttggct tcttgaatgc gcttatctgg cggcaaaagt cctcaggtgc tgttccattc 120  
accaccatgt ttgctcttgt cctccttttg ttccggtattt cagtaccttt gggtttttgtt 180  
ggaagcttcc ttggcttcaa gaaacctacc attgaagatc cagtgaagac aaacaagata 240  
ccaaggcata tccctgagca tgcttggtag atgaacccaa tcttctcgat tctaactcga 300  
gggatccttc catttggtgc tgtcttcacg gaactcttct ttatccttac tttcatctgg 360  
ctgcaccagt tctactacat ctttgggttc ctcttccttg tgttcctgat tctcatcgtg 420  
acatgtgctg agatctcgat tgtcctatgt tact 454

<210> 10926  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-H8  
  
 <400> 10926  
  
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 cgccaatgcc tggcatgggt ggtcctccac ctccgatggg tggaatgggc atgcctccca 120  
 tgggcgggat gggatatgcc cccgatgggc ctgggtccgat gccagcattc ggaatgggag 180  
 gctactgagt ggtgggttttg cagggagctt agatgatgat gtgaattgtt ccattgcaag 240  
 cataagcgga acctcattgg agctgtagat ggtttacagt ttgggaaatc aatattcttt 300  
 attgtaccag gaaacttttt ttttttgggc gagtgagcag cctggcccat agtttgtgaa 360  
 gtgcaacctt cgatatgttt aacgatggga tcggaaatag gatgattagg ttgt 414

<210> 10927  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-A10  
  
 <400> 10927  
  
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 cctcaatact cacaagctcc tatagctgcc cttcttcccc cataccttcc atcaatgacc 180  
 gcttcagtat gtgaaaaccc agcccttcaa ccctacaggc tccaacaagc aatcgcaaca 240  
 agcaacttac ctttatcacc cctgttcttt caacaatgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc agtgatcagc 360  
 caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
 caactgtct 429

<210> 10928  
 <211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-A11  
  
 <400> 10928  
  
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 tctgtgctca ctcgctagta tggctacact tattcgtcaa tcactatgac catcaagatg 180  
 ttccgtgtgc gaagatgcaa tgcgaattgg atacatgatc caacaggtac tggtagctac 240  
 tattggacat gtgtaactgt tgctcgtagc acaatcatca tccatattac atacaatgca 300  
 ttagacgctt agattgtgac gacacatacc gtcgcaacga ctgccactgc tcgtgctaac 360  
 gctgcttgat gcatactgtg atgcacaact gactccggag gtgcatttgg tggcacgaag 420  
 cataccgg 428

<210> 10929  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-A12  
  
 <400> 10929  
  
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 gctgttgaaa tctccgatcc ctttggggtg acccactgga catggccaat ttgtcacaat 120  
 ttattatattt gaccatgtc atgtgaaact ctttctgttg aagtctggta tctagattga 180  
 cttgtatcag agctgtggtt tacgcagact ggattctgga gtactggact gtgtgtgtgt 240  
 ttttcggaac tgtgcatctg acttttagct gttcgttgac tttgtttttc ttttttcaga 300  
 taaagagctg tttcttgatt tgatgcagaa aaaaaaacta caacaactca agctaact 360  
 aaaaaataaa atacaaaaaa caaaaacaat atcataaaat gcatttgata gc 412

<210> 10930  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-059-Q1-K1-A2

<400> 10930

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cagcagcagt ctcttacctt cgttcccgcg gaccagctcg gagaccgcgg ccttcgctgg 180  
cgcgcggtatc gactggaagg agactccaga ggcgcacgtg ttcaaggcag acgtaccggg 240  
gctgaagaag gaggaggtca aggtggaggt cgaggacggc aacgtccttc agatcagcgg 300  
cgagcgcaac aaggagcaag aagagaagac ggacacctgg caccgcgtgg agcggagcag 360  
cgggagattc ctgcgcatgt tccgactgcc cgagaacgcc aagacggagc agatcagggc 420  
cgncatggag aacggcgtgc ttacag 446

<210> 10931

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A3

<400> 10931

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ggcttcgtga ggttctccgt ggttgggttt ctgggggtgg ccatcgata tgcctctctt 120  
caatgttcac tactcgcttc tattttcatt ggactctgct gagccacgta ccaccactcg 180  
ctgaacaacg ctttctgcac ctaccgagat gtcctatagt acatgatcct cctcgatctg 240  
cagacgcaca tgttacgtg attaggatta accatcttat acacatatga tgcaatgcgg 300  
cacgccatct tagtgcata actgtctgga gctatacggg cgcaacatct ccgtcaa 357

<210> 10932

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A4

<400> 10932

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gtccggctect gctgctcagc atatgcccgc cggcagagat tgccctggag atcccatctc 120  
 ttacgcctac tcttgagac gccactctgg aagcggtact gcgatgaaac aggctcagcg 180  
 ctgtagatta ttgtcccga gtttctgct agccctgaag aacactaact gcatgtagcc 240  
 a 241

<210> 10933

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A5

<400> 10933

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 atggagacca agatattttc cctccttatg ctcttgctc tttctacatg tgttgctaac 120  
 ggcacaattt tccctcaatg ctcaacagct cctatagctt ccttttttcc cccatacctt 180  
 ccatcaatta tagcttcagt atgtgaaaac ccagctcttc aaccatatag gcttcaaaaa 240  
 gcaatcgcag caagcaacat accttttatcg cccttggtgt gtcaacaatc gccagcccta 300  
 tctttggtgc agtcattggt acaaaccatc agggcacaac agctgcagca actcgtgcta 360  
 cctgtgatca accaagtagc tctggcaaac ctttctccct actctccgca acaacaattt 420  
 cttcattca accaactgtc ta 442

<210> 10934

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-H12

<400> 10934

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 gccctccttg ctctttcagc aaacgttgct accggactat tattcacaat gtcacaaca 180  
 atacctcttc cggtgacagc cgcgagattt gaatacccaa ctatacaatc ctacaggcta 240  
 caagaggcca tcgcacaagc atcttacggt cgtagcattg actgttcaca ccatatgccc 300



tattgcaaca accatcctaa tgaatctata tontccaaga atcgtagcac atcaactaca 360  
acaacaattg cttccacaat ncaaacaaga gtttcagcga acttgagctt acctcagc 418

<210> 10935  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F8

<400> 10935

gttggttctt cctccccctc cggttcgtgt tcgggttcgt gaggttctcc ggggttcggg 60  
ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120  
ggcctcgcct gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcg cttcggttct 240  
gtcaccttct ccacggagga ggcatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360  
ggcgggtgggt acggtgggtg ccgtggaggc ggcggtctac gcgggtggcg gcgccgtgat 420  
ggcgggtggcg gctacggcg tggcg 445

<210> 10936  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G1

<400> 10936

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caagcccgtg ccagctgcag ggaacctgcg gcgttggcag caccctgacg ctggggccagt 180  
gcgtcgagtt cctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 240  
gccagtcgtt gcggcagcag tgttgccagc agctcaggca ggtggagc 288

<210> 10937  
<211> 435

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-058-Q1-K1-G10  
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 accattttcc cacaatgctc acaagctcct atagcttccc ttcttcccc atacctatca 180  
 ccagcgggtgt cttcagtata tgaaaaccca attgttcaac cctacaggat ccaacaggca 240  
 atcgcaacag gcatcttacc attatcaccc ttgttcctcc aacaaccgct agccctatta 300  
 cagcagttac ctttggtgca tttggtggca caaaacatca gggcacaaca actacaacaa 360  
 cttgtgctag caaaccttgc tgcatactct cagcaacatc agtttcttcc attcaaccaa 420  
 ctggctgcat tgaac 435

<210> 10938  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-058-Q1-K1-G11  
 <400> 10938

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 ccatcagata actattatgg aatatgccgg atttcctttc cccactgttg ccttgaagga 180  
 gggcctaact gcatcaagtt agcagagtgt tcagcagagc tacgaagaac ttgaagcagc 240  
 atttgagcca gggaaagaat tctgctttga cgcgacaatt cgttttaaact aagcttgcca 300  
 ctaggattga tcaccagcct cctccaatat tgtgacctca ttagtagttg ttaagaaatg 360  
 tttatcacgt gaagcagaat tgtgtaaaat atcatgaggc atgagcgtaa tgtattttgtg 420  
 tggcattaac ccataa 436

<210> 10939  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G12

<400> 10939

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agcccctgcg ctgacgattt gactgccatt ctggagtcag ttggctgtga agttgacaat 180  
gaaaagatgg aactcctgct gtcccaactg agcggtaagg acatcaccga gctcattgcc 240  
gctggcaggg agaagtttgc ttcagtccca tgtggaggca gcggtgtcgc tgctgcagca 300  
gctgcacctg ctgctggcgg agctgctact gcagatgagg ctaagaaaga agagaaagcg 360  
gaagagaagg aagaaagcga tgatgatatg ggcttgagac tcttcgacta ggctgcacag 420  
tca 423

<210> 10940

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G3

<400> 10940

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tctccgtgg cttccatggc gaactcaggc ctagggcttg gacttgcgcc accgggcgcc 180  
gagccctctt cactccagc ccagtgttg gccaaacggc gcgtcgtgcc cgccttctct 240  
taattcaagg gccgaaggca tggcgtcgta gtatgtgtgg cgcctccagt ttgcgtgtga 300  
cctccctggg gaccttcttc gcactggtgt cgaagcttga cctaacctgg ccaggccgaa 360  
ccttaaacca agtcttggcg atccagatcg ttcggtgagg catgaagacc ccaagccaac 420  
agccttcgga gctagcattg gcggtagc 448

<210> 10941

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G4

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cgaaggggttt ctttgctttc ataggggaac actttgagag ttctgaagag ctgaaacatt 120

tgaagaagt gctgcttgat cttttcagag gagaggctgt agagaatctg aaccttgccg 180

gtgtggatcg gatctatgtg tgcactgcaa tctctccac cactgtctac atgatgcact 240

gtgctctccg tctaaaaagg tcaggtacat ctattcctag gatggagctg gtcgaagtgt 300

gaccttcaat ggatctggtt gtaaggaggc acagacttcc agctgaaagt ttgaagaaag 360

aagctatgaa gaccgctgaa catgctaaga agatgaaaaa tgtcaccaag gatccagtgc 420

agggcaagct gggcaagtc tacatgcc 448

<210> 10942

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G5

<400> 10942

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tttagggaaa agcgggaagga gcggaacttt gataagaaga tccggtacaa tgtccggaag 180

gaagttgcac ttaggatgca gcgtaataga ggtcagttta catcttcaaa accaaagcct 240

gatgaaatag cagcatcaga aaatggcagc tgcagatggc tctctgaatt gngcactagt 300

tgaagggccg acctccatct gctgctgaat ggtcatccct gtggtattaa tgcaacagct 360

acaccaatga tgcgtcgggg accttgatgg accaagaaca ctatgca 407

<210> 10943

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G6

<400> 10943

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 agccggagat acggatcccc gtcagcgagc tgccggagtt cttgagaagc ccagcgaagg 180  
 gccaaggcac gttgaaccct tgcaacgcgg cgatggccag gtgcctgggc gtcgcctaca 240  
 acacgttcgc gggcctggag caggagtacc gcgaggcgag catgcgcgtc gcgtccttga 300  
 agcgcagcta cttcgtcggc cccgtctcac tgccgtgcc gccggccgcg gcaggcgtca 360  
 ctgagcctcc atgcatccgg tggctccact ccaagccgag ctgctcgggtg gtgtatgtgt 420  
 gcttcggcac ctacgcgcgc atctcg 446

<210> 10944  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-058-Q1-K1-G8  
 <400> 10944

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 aaaaaataaaa aaaaaaaaaa aaactaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atttgccccc ctttttaag 180  
 ttccaatttt ttcttcccct tatttccaaa tttttatttt tttttttttc cccctaaatt 240  
 taattcattt gcccatcttt ttaaaacctt atttttgaaa aacctttttt ttaccaatt 300  
 ttattccttt tcaaaaaatt ccctttttcc caatttgtgt attttccaaa a 351

<210> 10945  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 10945

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 taattatata gaggaacat caatacaact tccagaaata ggcaccagca atactattgt 120  
 tcaaggtcat gttgatgtca atgaacaccg atttgatgga ccaagaacaa tcgaagaaat 180

cgttcctgtt ccattggatg agatacagat ccatgaggat gtcccagggc aaccggggagc 240  
agccgatgag atagatgagg ttccattttc tgacgctccg atcattgggtg ctccattcag 300  
actgatctca tttgttgcta ggtatgtcag cggcgctgat ttggtcaacc aaaaataact 360  
gtctgcatac caggaattca ggactnttat gtcaggagtt cttttttgat cccactgata 420  
attacgtcag tatic 434

<210> 10946

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H11

<400> 10946

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gaagagcagc tgctacctaa acaatgctgc ctgcaaactg aagttgaagg attacaagga 120  
agctgcgaag ctttgcacca aggttctgga actagacagc caaaatgtca aggctctcta 180  
caggaggggtg caagcttaca ttcaacttgc tgacctagag ctagcagagg ccgatatcaa 240  
aaaggcactg gaaatcgatc ctgacaacag ggatgtcaag ttggaatata agatcctgaa 300  
ggagaagatc aaggagtaca acatgaagga cgccaaattc tacagcaaca tggtcgccaa 360  
gatgacaaag tagcttttgg ggtggaggat gttgtggtga agcgaacgga ttaaaaacac 420  
cgattttctg 429

<210> 10947

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-F6

<400> 10947

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cggtcgccgc gccaccctct ccatcggaac cgtgctgcc ctccgcggga tccctgaggg 120  
tgccgtcgtc tgcaacgtcg agcaccacgt cggtgaccgc ggtgtcttcg ccagggcctc 180

tggggactac gccattgtga tcagccacaa ccctgacaac ggcacatcga ggattaagct 240  
gccctctggc gccagaaga ttgtcccag cagctgccgt gccatgattg ggcaggttgc 300  
tgggtggaggc aggactgaaa agccgatgct caaggctggt aacgcgtacc acaggtaccg 360  
tgtgaagagg aacagctggc ccaaggtgcg tgggtgtggc atgaaccctg tggagcatcc 420  
ncacggagga ggtaaccacc 440

<210> 10948  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-E2  
<400> 10948

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gttgtagcca tggcgtggag cgccgccgcc gtctccaggt tcgccgccgc ctccccaccc 120  
gcggcaccca tctccgtcag gcttggagcc gccgcttctc gtcctccctt gtccttctcc 180  
agtgggcgcc gacgccccgt ggccgcgtcc ctctcgacct ctgccaccgt tgtaaaggag 240  
gctgttcaga cagagaaggc accaccagca ctaggccctt attctcaggc catcaaagca 300  
aataatcttg tgtttgtttc tggagtctt ggcttgaatc ccgagaccag gaagtttata 360  
tctgaaaatg ttgaggagca aactgagcag gttatgaaaa acatgggcga gatattgaaa 420  
gctagtgggtg ctagctattc ttc 443

<210> 10949  
<211> 352  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-E3  
<400> 10949

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gcgacgtggc ggaggagaag ggcgcgttgc agtcggcgag ggagtgggtg gtcgaccaca 120  
agctccgggc cgtcgggacg ctggggctca gcggcatcgt cggctccatc gcctacaact 180  
ggtccaagcc gggcatgaag accagcgtca agatcatcca cgccaggctg catgctcaag 240

ctctcacgct ggctgccttg gctgggtccg cgctggtgga gtactacgac caccagcaag 300  
 ggtcaggatc gaaagttcac caatttgcaa agcagtttct ttcattgat ag 352

<210> 10950  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-058-Q1-K1-E4

<400> 10950

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 gcctgtgccc caagcgcattc gtggtggacg cgcgccaaca catgctgggc cgtctctcct 120  
 cgaacattgc caaagagctg ctcaatgggc agaaggtggt cgctcgtccgc tgcgaggaga 180  
 tctgcatgtc gggcggcctc gtccgtcaga agatgaagta cctccgcttc ctccgcaagc 240  
 ggatgaacac caagccgtcc cacgggcca tccacttccg cgccccggc aagatcctgt 300  
 ggcgcaccat ccgcgggatg attccgcaca agaccaagag gggggaagcg gctctggcga 360  
 agtcaagac gtacgagggc gntccggcgg cgtacgac 398

<210> 10951  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E6

<400> 10951

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 tttctgcatg tggtgctaac gcgacaattt tccctcaatg ctcaaacgct cctatagctt 120  
 cccttcttcc ccatacctt ccatcaatga tagcttcagt atgtgaaaac ccagctcttc 180  
 agccctatag gtcaccaaa gcaatcgag caagcaacat acctttatca cccttggtgt 240  
 ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc agggcacagc 300  
 agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac ctttctccct 360  
 actctcagca gcaacaattt cttccattca accaactgtc tacactgaac cctgctgctt 420  
 atttgcagca acaactatta ccat 444



<210> 10952  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E7

<400> 10952

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 gtctagcagc agccaccgcc gcctcactct cgcagccgcc gtctgtctct ccgtgtctgc 120  
 ggctgccagc gccagcgccg ggacctcttg cgtgccgggg tgggccatcc cgcacaaccc 180  
 ggttcccagc ctgccgttg tacgtgacca gccggacctg cggcatcggg ccgcgcctcc 240  
 cgtggccgga gctgaagagg agatgctgcc gggagctggc ggacatcccg gcgtactggc 300  
 ggtgcacggc gctgagcatc ctcatggacg gcgcgatccc 340

<210> 10953  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E8

<400> 10953

atcagcagct tctgcttgc ttgtggggga aggagagaga gagagagaga gatctagggg 60  
 agaggctagt aggtggctct cgaacgaaga tggtggcggt gttcagcgt caggtgggtg 120  
 aggtgccggc cgcactgctg gcagctggca gccggacgcc gtgcgccacg acgaaggtct 180  
 ctcatctggt ggtcgcgctt cctggccgcc tccagacctg ccgtgtccgt gcagttcggc 240  
 caccacagtc acctcgcta cttccacacc aaccacgcgc tctacgccc caggtcgctc 300  
 gcggcccagg accaggtgtt ctgactgac gagcgggtgc tgcacaccct gagtcgtctg 360  
 aaccatgcac acgggctgtc atgcaagggc gccaacgagg tgctcctagc catggatgcc 420  
 tac 423

<210> 10954  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E9

<400> 10954

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gttcgtgagg ttctccgggg ttccgggttcg tgggtgagcg gatcgagatg gcggcgtcgg 120  
atgttgagta ccgctgcttc gtccggcgcc tcgcctgggc cacggacgac cactccctcc 180  
acaacgcctt cagcacctac ggcgaggtcc tcgagtcctaa gatcatctc gatcgggaga 240  
cgcagaggtc ccgcggttc ggcttcgtca ccttctccac ggaggaggcg atgcggaacg 300  
ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc 360  
agtcccgcgg cggccgtgga ggcggcgggc gtgggtacgg tggtagccgt ggaggcggc 419

<210> 10955

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F1

<400> 10955

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acatttgtag tgaagctgga cgtgcgagga atattgaatt ctcttcctac 110

<210> 10956

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F10

<400> 10956

ggagttctgg ggtctcgagg tcaaacctgt atccactgtc aagtgtgagc ctgtactgac 60  
tttgtcctgc acgtttccca ggctgccctt ggggaatcaa agaaaagtga cagtgcctta 120  
atgtatgtca aagttgatga caagaagctt gccattggaa cgctctctat cgacaaatac 180  
ccacagatac aattcgattt ggttctcaat aaagagtttg agctgtcaca cacatcgaaa 240  
actaccagtg tatttttctc tggttacaag gttgagcagc caattgaggg agatgaaatg 300  
gatcttgatt ctgacgatga acaggaggag ctaaacattc cagtaatcaa ggaaaatggc 360

aaaggtgatg ggaaggagga gcagaaaaat caagagaagg cagtagctgc tacagcttca 420  
aatcaagtc ttg 433

<210> 10957  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-F11  
<400> 10957

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gaaaagggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaagaaagaa aatattaaaa aaaaaaatTT ttaaaaaaa aaaaaaaaaa 240  
aaaaaaatTT ttatataagg gaaaaaaaaa aaaaaaaag gagggtatTT aaaaaaagt 300  
tgaattgaaa aaaaaaaggT ttaacaaaat aaattaggTT aaaaaaaaa aaatTTTTTT 360  
aaaaaaggga aaaaataaaa aaaggctaaa aaaagaaatt ttaaaaa 407

<210> 10958  
<211> 330  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-058-Q1-K1-F12  
<400> 10958

ctgaaatact gttaggacta gtttggttac tctatTTTT caagagattc atatTTTTgc 60  
aagtggaaat gaattaatTT tcttttgaga aaatagaaag aaatcccttg aaaaaaatga 120  
gattctctag gagccataaa accggagtaa attggaggag ctaaattcat cctTTTTatt 180  
caatTTtgaa taagaggaat ttagctcctc tggTTTTgtg gcttccaaac taaggTTgta 240  
ttctctaaga tatTTgtgct gctgctgctg ccaatgtact gtaaatatct actaccatca 300  
aagttattga tgttctctaa gctatTTTT 330

<210> 10959  
<211> 452

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-F2  
  
 <400> 10959  
  
 cccaacgaga agagcggcgg cgcgggcgga caaggagcag gcggaggaag agctgtgcga 60  
 agccagaatg ggtatctcac gcgactcgat gcacaagcgc cgtgccaccg gtggaaagca 120  
 gaaggcctgg aagaagaagc gaaagtatga gcttggtcgc cagccggcca acaccaagtt 180  
 gtcaagcaat aagacagtga ggaggggtccg tgttcgtgga ggtaacgtga agtggagggc 240  
 tcttcgcctt gatactggta actactcatg gggaagtga gctgttacc gcaagaccgc 300  
 tatcctcgac gtggtctaca atgcatcaaa caatgagctt gtgaggacac aaacccttgt 360  
 gaagagtgcc attgtgcaag ttgatgctgc ccattcaag cagtggtagc tcaactacta 420  
 tggagttgac attggtagga agaagaaaac cc 452

<210> 10960  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-F3  
  
 <400> 10960  
  
 caagcaccga aatcgacgaa ttcttgcccc ctctgcgatc tcgacgcgca ccgatgcggg 60  
 cgatgtgggc ggcggttaat ggtatgctgc gggcacggct gcgcggggca gcgcgcgttc 120  
 gcggcgggcg cggcgaaggg gccggggcgt ggacgacccc caggtcacga ggagcgcccc 180  
 aaggggtacc tcttcaaccg gccgcgcgcg cctccggggg aatctcgcaa gtgggaggat 240  
 tgggagctgc cctgctaccg ggacctcctt cctcacgcgc gtcacccctg gcg 293

<210> 10961  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-058-Q1-K1-F4  
  
 <400> 10961  
  
 ctcaagtatat atgcgaaaat gatggagttt ttaagttaag tatctttatg gcctcttggg 60

gttcgggggtg aactttactg taagttcttt ttcttaaacc accaccaatt ttcaaattgg 120  
 tcacctcttc cttctttccc ttatgacatt gaggcctatg tttatgttcc tgaagccgat 180  
 atcctgtcag tcttagatgt gcctcctggg aaaatgggac gagttattgg cagaaagggg 240  
 tcaacgataa tggctgtgaa agaatgttgc aagggtgaaa tacatattgg tggtgctaag 300  
 gggccttcag acaggggtgt catcattgga ccagagaagg atgtcaggaa agctgaggcc 360  
 atctttcgag gccgaatgct ggagttctag agatgttacc ctttgcgata caggtttcaa 420  
 ctgctttata ttttgaacgt aaaa 444

<210> 10962

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F5

<400> 10962

caaacagaag tgggtgtagtg ctcttaacaa ctgcaccttt gatggtggga tcgagtatga 60  
 accacaatgt gacagtatga gcaacatggt taataatggt tctgataagt tgacttctct 120  
 ttgtgcaatt gctgttgctg tggataaaca gactgaagat tggagggaaa aagaattaga 180  
 tgaggatgca cgggtgtttcc aaaggccacc tgcttgcac ataaaaataca gtgatatttt 240  
 gaatcatgca gcaaagggtt atacacctta gaatctacaa actgtttgag acagattttc 300  
 ttgatgggtg tggagccaca aaattcaaag agcttccgtg tcaagataac aatacatatc 360

<210> 10963

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E12

<400> 10963

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 ctctcggtat cctgcttgct atgtctgcat gtgttgataa cgcgaccttt attcattaaa 120  
 gctgacaagc ttctataact tccctacttg caaaatacct tccataaccg actgattcag 180  
 catgcgaaaa atcagctttt cagcactata cgctacaaca agcagtcgca gaacgaaaga 240

tatctttatc acccttgcag cctgaacaat caacaggact atctttggag cagtcatatg 300  
 ttacaaacca tcatggcaca gtacctgcag caactcctgc tacactgtga tcaaccaata 360  
 agctctgtca tacctatctc cctactctca ttatcaacaa tttcttcca 409

<210> 10964  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-E3  
 <400> 10964

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 ggaccagacg tggaatttgt tctgttagca actgatgggc tttgggatta cataaaaagc 120  
 tctgaagctg tagcttttgt cagagaacaa ctccgtcagc atgggtgatgt ccagttggcc 180  
 tgcgaggcac ttggtcagaa agctctggat caacgggtccc aagacaatat tagcatagtc 240  
 atagctgact tggggaggac aaactggaag gcgttgcccc atgaaaggcc gaacttggtc 300  
 ttggaactaa gtcaagcagt cgcgacttgt aggggtgtct caataagaat ttgggtctcg 360  
 tcgttccttg ggttacagta gaactagcta ctccgtncgg atgtgtatat tacctactg 419

<210> 10965  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-E4  
 <400> 10965

cccacgcgtc cggggaaaat tcttctgaa gggatcgggt aggttcaaga aatcatggac 60  
 atgtgtgatt atgctgtggg gctaagtcgc caactaaatg gatccattat accatctgaa 120  
 cgaccaaacc atatgatgat ggaagtgtgg aatccccttg gagttgtggg tggtataacg 180  
 gcatttaatt tcccttgtgc tgtgcttggg ttggaatgctt gcattgcttt ggtctgtgga 240  
 aattgtgtcg tctggaaagg tgcaccaaca actccactga tcaactattgc aatgacaaaa 300  
 atagtggcta gtgtattgga gaagaacaac ttgccaggcg caatttttac atctttttgt 360

gggggcactg aaattggtca agcaattgcc cttgacatta ggataccttt ggtttcattc 420  
actggaagta caagggtg tc 442

<210> 10966  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-034-Q1-K1-E5  
  
<400> 10966

cggacgcgtg ggaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga 60  
aaaaacaaaa aatttaaaaa ataactaact aaaaaaaca tgcatacctc ttcttaattt 120  
ttcttttttc cttcctcatt cttactacct cttagttttt atataacgtt cttacttta 180  
aattccctgg cttacttta ctaacttggc ttctggtaaa tccttctttt tccccctttt 240  
attctccttg caacgcatac acctttcttc atttcaatta ttgcccaga ttccttaacc 300  
attcgactt tccatcattt gcccaa 326

<210> 10967  
<211> 427  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-034-Q1-K1-E7  
  
<400> 10967

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gcgcctccac caccatgtcg tcgatgatga acgcgctggc gaactggctg gcgaacccgc 120  
gccgcaaccg gctggcgcgc ctccacatgc acgccgtctc ctgcgcctc aggaaatacg 180  
gactgaggta cgacgacctc tacgacccct atttcgatct ggacatcaag gaggcgctcg 240  
gtaggctgcc tagggagggt gtcgacgccc gcatccagcg cctcaagcgt gccatggacc 300  
tctccatgaa gcaccagtac ctcccggagg acctccaggc acagcagggt ccattcagag 360  
gatatttggg tgacatgttg gcgttgggtga aaaaggaaag cgccgagcgt cagtcactgg 420  
gagccct 427

<210> 10968

<211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-E8

<400> 10968

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 tcacttgctc ctagtccat tattccacag ttcctccctc cagttacttc aatgggcttc 120  
 gaacacccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag cgtcttataa 180  
 caaccaattg cccaattaca acaacaatcc ttggcacatc taaccataca aaccatcgca 240  
 acgcaacagc aacaacaatt tctaccagca ctaagccaac tagctgtggt gaaccctgtc 300  
 gcctacttgc aacagcagtt gcttgcattc aaccacttg ctctggcaaa catagttgca 360  
 taccaacaac aacaacaatt gcaacagttt ctaccagcgc tcagtcaact agccatggtg 420  
 aaccctgccg nctacctaca acag 444

<210> 10969  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E9

<400> 10969

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 gagcggcgag ggtggtgacg agaccaaaga tctctcctc cttgatgtgg cccccctcac 120  
 cctgggtatc gagaccgtcg gtggagtcac gaccaagttg atcccgagga aactgtcat 180  
 cccgaccaag aagtcgcagg tggtcaccac ctaccaggac cagcagacca ctgtctccat 240  
 ccaggtcttt gagggtgagc gcagtatgac caaggactgc cgtcttctcg gcaagttcga 300  
 cctcaacggc attgcgccag ctccaagggg cacaccccag atcgaggtga ccttcgaggt 360  
 ggacgccaac ggtatcctaa acgtgaaggc ggaggacaag ggcacgggca agtc 414

<210> 10970  
 <211> 397  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-034-Q1-K1-F1

<400> 10970

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ggatgggtcag gagcttgagg acaaccagct gatagctgat attagcagga cggatgatgc 120  
tgagattcat ttattcatcc gcaaaccagc aaagggtatgg acacaacaag ttgatggaga 180  
tactttgggtt acagttgtca atccacaggg gaaaggcaac ctgcaaaatg aagctggctc 240  
agtgaactcc gcaaactcag ttgtggatag gcctgtccat gttgaaccaa tagttaaccg 300  
aaaagccaag ctgtcatgtg aagtgatgaa tatgataaat tcaaccatag ctggactgga 360  
gaaagggcac ctgactgtga tgtcagctga acgttca 397

<210> 10971

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F10

<400> 10971

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agcggggtcc taccaacaac acatcattgg tgggtgccctc ttttagatag cttattagct 120  
gcaattcaat aatcaagtta tctggatgat gtatgtggcc aaccagaaat aagaagctac 180  
atttacagat tctagaggca aaactggata aaaacgatag actgctggat ttcacacaca 240  
aaccttgatc tgcattgtgtt g 261

<210> 10972

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F11

<400> 10972

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ccgacatctg atatcagggg tcagctactg ccattctatg gaaatttgct accgtgatct 120  
taaacttgag aacaccctcc ttgatgggag tccaacacct cgtgtgaaaa tttgcgactt 180

tggttactca aagtctgctt tgctgcattc caaaccacaa tcaacagttg gaactccagc 240  
 atacatagcc cccgaggttc tttccagaaa agagtatgat ggaaaggtag cagacgtctg 300  
 gtcctgtggt gtcacgctgt acgtgatgct cgtgggatca tatccatttg aagatcctga 360  
 ggatccaagg aacttccgga aaacgatcag cagaattctt ggcggtgcaat ac 412

<210> 10973  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F12

<400> 10973

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 ttgtggtcag tcaaagatcc aacctccgga ctgcgcatgg ggcgggcgat cctcaacgat 120  
 gctctgcgca cgatgggtcaa cgcagaccgg cggcggaacg cgtcggcgct tctccgaccc 180  
 atctccggcg tcatggtctc cttcctcaac atcatgaagt accgagggta tatcaaaaaa 240  
 tttgaggtca ttgatgagaa tagagctggg aaaattagag tggagcttga tggacgtctt 300  
 aaagattgca aagctctcac ctacaggcaa gacctcaaag ctaatgagat agaacgatac 360  
 agagttagga tgctcccaac acgccagtgg ggctatgttg tgattactac 410

<210> 10974  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F2

<400> 10974

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 ggacgccccaa ggtcatgacc aaccggcttc tttcccgcaa gcagttcgtg ctccaagggtc 120  
 tccaaccggg ccgggccaac gtctctaaag cggagctcaa ggagaggctg gctaagatgt 180  
 acgaagtgaag agatcccaac tgcattctcg tcttcaagtt ccgcacccac ttcggaggcg 240  
 gcaagtctac cggattcggg ctcatctacg acaacgtcga ctacgccaag aagttcgagc 300  
 ccaagtacag gcttatcagg aacggtcttg ctaccaaggt ggagaagtcg cgcaagcaga 360

tgaaggagag gaagaacagg gcgaagaaga tccgcggtgt gaagaagaca aaggctgggg 420  
acgccaagaa gaaatgagcc aggttt 446

<210> 10975  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F3

<400> 10975

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atggaggggg ctgatggcaa gcaagagtca gaaactacat gtataatcaa agttcctaaa 120  
gagcctgcca tcattatcaa tggcgttcca gattttcctt ttgattgcac aactggttct 180  
caatctgcag taaaaaatga cgcagaatct catgttgatc ctcgtttttg tgaatggtta 240  
gaagggagga aagtgcgtaa gctttttgga gacacatatt tcgtcgggaa agtggccaag 300  
tatgacattg aaagcaactg gtacaccgtc atttatgatg atggagacca ggaagatctt 360  
gaatggcgtg aacttgagaa agttctactg ccattggaca taactgttcc acttaaaaac 420  
actgttatcg 430

<210> 10976  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F4

<400> 10976

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ggttaacaag atggtgcgtc gtcgcaacct ttcggtggtg gagttcaaca gtgactccga 120  
cgaaatccaa gaggaatcgc gtgttccttc tctccgcct cggcgttctc tctccaagtg 180  
aggacgaggc tctggccgtt tggaaagggg aggaccctcg atgcccttgc aacctgggag 240  
ccaagggcgt caaaagggtg gcgccactcg tccccgtcga agcaccttct tcgctgtata 300  
cgctccttgc caggaggagg atggagcttt tgacgacgag gtcgaacctt cgatcatccga 360  
cactcccctc gtcatcggac tccacatgca tccggcgact gtgtcccatg ggccgaatga 420

accttcagtc gacttctc

438

<210> 10977

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-F5

<400> 10977

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atcatcataa acatcttcag gatcctcatc tacaacaaca tcattcacca aggacacat 120  
catacaaac agacacacac atcatcacta tcagcagtg cacaacaac tacatgttac 180  
catgcatca caaaaacatt aacaacaaca tgaagtacat gtacagacaa caacaacaat 240  
gactgtagca tcagcagaac atacaacaac ggcaccagct acaacatcat gaatgtgaaa 300  
gtcatcaact catgaccatc aatctacagg ccatgtgcaa caatacgaac agagccatgt 360  
acatcactaa gacagagcca tgagcaacta catcgacaac aatatcagcg tcatgacaag 420  
cacgaacatc cagcatgc ttatgaata 449

<210> 10978

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D1

<400> 10978

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acatagagaa ggagctacag aaaaacggtt tcaagcccat gacaaatact gccaaacgac 120  
tagcagctgc ccagatcaat ggcgtaaaac ccaaggctaa gcccaagaag aagcagcgtg 180  
agatcacaaa acggaccaag ctacgaatg cccatctgcc tgagctgttc cagaatctta 240  
aacttaaac gtgtacagt atctgacgac ggaagatggt tcattatact cctatttatt 300  
gtacgttgc gtgtatgtgt tatgcagcta tgctgtatgg cttatgggta tgagcgccac 360  
aaatttgctt gacaagattc tggatgatat acttatgcat tctgacataa taggaagcaa 420  
aacctcaaga ttt 433

<210> 10979  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D10

<400> 10979

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ctaagaatga aaagttaaag tctctgatcc atgaaccgtt gcagtggaaa tgtggtcgtg 120  
gacagtataa agtacacaga tgtgggccac atacctgag atactgatga taagacagtg 180  
cccaaggata gtgtgactcc aacgtttgct gctgaggagc ttttcataaa taatgccaga 240  
tgggatggag ttgcctatct tatgaaagct gggaaagctt tgcacacaaa acgagctg 298

<210> 10980  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D12

<400> 10980

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agggcggcag cggcgtgcga tcccaagccg ctggtggtgt gcgatccggc gttcatggac 120  
ggagcgaaac ccgcggcagc atgctgctgc accctgcgtg cgcattgacgc atgcttgtgc 180  
gtgtacgcca aagaccccaa gtttgcaaaa tacatcatca accccaacac cgacaaaacc 240  
tttacctcgt gcggcatagc catccgcaaa tgctaagcaa gcgctctgcg tcgtcgttcc 300  
gcttgctctt gctcttgtgt gtaacata 328

<210> 10981  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D2

<400> 10981

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gcaatgcaag caaagatctg atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaagagga accaaaaaca ataataac 168

<210> 10982  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D3

<400> 10982

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 gagagagaga agagagagag agagagagga gtgagagacc cgcgagaggc tgccgtgtaa 120  
 ggaccgtaga ctacagcact gcgaaggatg gataagggga tggccgggat cggaccgatc 180  
 aggcaggact gggagccggt cgttgtgagg aagaaggcac ccaccggcgt cgccaagaag 240  
 gatgagaagg ccgtcaacgc cgcgcgccgc gccgggtgctg agatcgatac catgaagaag 300  
 tacaacgctg gtacgaacaa ggcggcatcc agcgggtacat ccctcaacac caagcgcctc 360  
 gacgacgaca ccgaatacct cgcccatgag cgagttccaa gtgatctgaa gaagaatctc 420  
 atgcatgcaa ggctcgat 438

<210> 10983  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-D4

<400> 10983

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 tgcattcaca gaaacctatg aaggagagag gcatgggtgg gcacgtggac aggatcctca 120  
 agcatggcgt gttcctcaaa tccggacccg tggagagcat cttcctggct gagaagtcga 180  
 tgagtaatta caagtacata agtggggaga atgcatggtt catgaacgac cactcgaagc 240  
 tggagaaaga caccgncgtg cgcttcaagg tcctaggggtt ccgctggatg gaggctgacc 300  
 gccaatcca gtccttgct acgatcgctg gtgacttctt tgggcccgtg tgaactgctt 360

ccacagggtca aacaggttct aatgtacatt gctcgttaga tgggtggatgg atggttggat 420  
ctgatgtgta gaatta 436

<210> 10984  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D6

<400> 10984

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agatattgtt gtgaagattg gtctccggaa aggatccaaa tcttttgagg aagcacgtgc 120  
cgctggattc accgaagaga gcggaacctt gggcgatatt tgggaaaccg tctccggcag 180  
cgatcttgctg ttgctgctga tatccgatgc tgcacaggct gacaactatg agaagatctt 240  
ctctcacatg aaaccaaaca gtatccttgg tttatctcat ggatttcttc tgggacattt 300  
gcaatcactc ggactcgatt tcccaaagaa catcagtgtg attgctgtat gccccaaagg 360  
aatgggtcca tccgtccgca ggctttatgt tcagggcatg gaagtcaatg gcgctggcat 420  
caactctagc 430

<210> 10985  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D7

<400> 10985

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atacccatgg caaaaactact cttggggttg ctcttgccc ttgctattct agggacaaca 120  
tcggctgctg gttgtgtaca agacgcggaa gacatgaaac gagagtgcaa gcagtttgag 180  
ctattcccag cgaacccaaa gttgccaccg tcggcagcat gttgtgctgt gtggaagagg 240  
gcagatgttc catgcctatg caaatatgtt aacaaggaag tagagaaggt atggtgcatg 300  
gagaagggtg tgtacgtcgc caactattgt aagaagccgt ttcaacctgg ctacaagtgc 360  
gggagttata cagttcctct tagtatgtaa aaggaagtgg ttgggacatg tgggtactct 419

<210> 10986  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D8

<400> 10986

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agcaacgact taacaacaat ggctaccaag atattagccc tccttgcgct tcttgccctt  120
tttgtgagcg caacaaatgc gttcattatt ccacaatgct cacttgctcc tagtgccatt  180
ataccacagt tcctccgacc agttacttca atgggcttcg aacacctagc tgtgcaagcc  240
tacaggctac aacaagcgct tgcggcgagc gtcttacaac aaccaattaa ccaattgcaa  300
caacaatcct tggcacatct aaccatacaa accatcgcaa cacaacagca acaacagttc  360
ctaccagcac tgagccaact agatgtggtg aaccctgtcg cctacttgca acagcaggtg  420
cttgcatc                                     428
  
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<210> 10987  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-D9

<400> 10987

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agctactgcc tactctcagc agcaacaatt tcttccatth aaccaattcg ccgcactgaa  120
cccctctgct tatttccagc agcaaatact actaccatth ggccagctag ctacaacaag  180
ccccgcttcc ttcttgacac aacaacaatt gcttccgttc taccagcagt ttgtggctaa  240
ccccgcaacc cttttacaac tgcaacagtt gctgccctth gtccaacttg ctttgacaaa  300
cccagcagcc ttctaccaac aacacatcat tggcggtgcc ctctttttaga ttgcttatta  360
gttgtcattc aataatgaag ttttttggt gatgtatgt                                     399
  
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<210> 10988  
 <211> 401  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E11

<400> 10988

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tggactttca caaggagggtg atagaaatgt ccagaccgag tcacgaaaat gtcccaaaga 120  
tggtgagata ctgcatggag tctgacccat cctcgagaat gctagtcttt cagtaccac 180  
caaaagggac actgtacgag catctgcacg atggagatag ctggcagcta tcttggccta 240  
cactgatgaa atcagcactc gacatatata gggctatcag atacttgac actgagctgc 300  
aacctccgtc tgcagatgct gcactgacgt ctagtccagt gtacctaact gaagacttct 360  
actcaaagat aatcgattgc gacaggagga gatatatg g 401

<210> 10989

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E12

<400> 10989

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gagtattatt tcattccata gtgccggcctt ttcgcaacgt cattgatgtg cctcttgtgg 180  
ttagaggatt acgcaaactc agatctgagg tgaggaagga actaggaatt gaggagaatg 240  
ctaaggtgct cgtttttaat tttgggggtc agccagcagg atggaaaactg aagcaagaat 300  
gtctccctga tggttggatt tgtttggtct gtggtgcctc tgattctcaa gatgttccac 360  
cgaacttcat taagcttgcg aaagatgctt acacacctga tgttatggca gcac 415

<210> 10990

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C8

<400> 10990

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 cctttgggaa gatgctcgtg ataggctctg agccaccctt caagctgaag ggcctttggc 180  
 tcttcggtgg ccaggatggt cccaagtttg taatggacga ggtctatgac atggagctct 240  
 acgagtggac caaggtggac atctctgatg agggccagaa ggagcgtgtc aatgcgatga 300  
 ttgaggacca ggagcccttt gagggcgagg ccttgcttga cgcgaaatgc ttcaagtgag 360  
 tgtgcttgcc tggagacaga actgttttagc ccttgaaatt gcctatggaa gagtttgccc 420  
 ttttactagt gtcgatg 437

<210> 10991  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B2  
 <400> 10991

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 gcaccaagcc agtggaggac aagatcatgg aggtcgcttc gtcgagaag ttcctgcagg 180  
 agcgcaccaa ggtcgccggc ggcaaggctg gcaacctcgg cgactccgtc accatctctc 240  
 gcgagaagac caaggtcacc gtcacctctg acggaccctt ctccaagagg tacctgaagt 300  
 acttgaccaa gaagtacttg aagaagcaca acgtgcggga ttggctacgc gtggttgctg 360  
 ccaacaagga ccgaaacgtc tatgagctcc gctacttcaa cattgctgag aacgagggcg 420  
 aggaagaaga tta 433

<210> 10992  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B3  
 <400> 10992

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 taccaaaaca ttgacctca cgatataaaa ataactaat tgtatttcct aataacccat 180  
 taagtcttct aaaaacttga tgggaacaca tctgagactc cggccaccat tttatggaaa 240  
 gagaccgcta aaaccatttc ttataacaac ccattgtgca aaacgtccct taaaaacttg 300  
 accaagaact acttgtttaa acgcaccaag ctttaattacc tactcatgcg aactgacaac 360  
 ttttacatag gcgtccataa actcaattac ttggacattg 400

<210> 10993  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B4

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 agccaggcga tcttggtgca cacataaagt tcactgtgct gctgatgccc aatggatcag 180  
 ataagataac atcacatcct ctacaggagt taaagcccac caaatccatt gaagacaatg 240  
 cagagataaa ggcatggctt gctttgggga cgaaatcaaa gaagaagggt ggtgggaaga 300  
 agaagaaagg caagaaagga gatgcagcag aagcagatcc catggaggag gcgacaaacg 360  
 gtgctacaag ccaagaataa ttctgatttt tggaattact gccaccagct tttttcttgg 420  
 ttcttcgctg catctg 436

<210> 10994  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B5

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 ccaattcttc aaccctacag gatccaacag gcaatcacag caggcatctt acctttatca 180

cccttgttcc tccaacaatc atcagcccta ttacatcaat taccttttgt gcattttattg 240  
gcacaaaaca tcagggcaca acaactacaa caactcgtgc tagcaaacct tgctgcctac 300  
gtcagcaac agcagttacc tttggtgcaa ttgttggcac aaaacatcag ggcacaacaa 360  
ctacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacagca gtttctgcca 420  
ttcaaccaac tagc 434

<210> 10995  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-B8

<400> 10995

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aaaaaaaaaa aaataaaaaa aaataaaaaa caaaaaaaac aaaaataaaa aagggggccgc 120  
cctttttaag gttccaatct ttctaacgca attgttcaaa gtcttaattt tcctatttgt 180  
gaacctaatt tcaattccct ggtccttttt taaaaacttg gttactggaa aaaccttggc 240  
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aaggccctac ccgatctcct ttacaacaag tatcccatcc tgaat 345

<210> 10996  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C10

<400> 10996

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acaacttgct ctagcaaacc ttgtgccta ctctcagcaa cagcagtttc ttccattcaa 180  
ccaactagct gcattgaact ctgcttctta tttgcaacaa caacaactac cattcagcca 240  
gctatctgct gcctaccctc agcaatttct tccattcaac caactgacag cattgaactc 300  
tcctgcttat ttacagcagc aacaactact accattcagc cagctagctg gtgtgagccc 360

tggtacctta ttgacaca 378

<210> 10997  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C11

<400> 10997

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ggagtagggg gaaaaataaa aaaaggaagc ataaatatagaa actaaaaaaa caatgaaaca 120  
acaactaaca acatctgggtg ctagacaaac cttgatgact actctcatca acatcagtat 180  
cttacattca tccaactaca tgcattgaac tccagcttct tatatgcacc aacagcaact 240  
aacatacagc cagctacatg attcctaccg tcagcaattc ctatcattct accaactgac 300  
agca 304

<210> 10998  
<211> 387  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-034-Q1-K1-C12

<400> 10998

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aggacgaagc gtccgtggta ttgccttatt acaaggatgg tgccactaat ccgacattcc 180  
tctatttctc tcatgggtctt aaggagatca agtgctagat tagttacca tgttgggtac 240  
tatatatgtt ctattgttat agccacaact atagctgccc tgcttgaact gaactcaggt 300  
ttttttaaga aaaaactgtc caagattgga ttgcttggtta aagctaaata ttgntattga 360  
cgtgttattg cttagttgtc attngtc 387

<210> 10999  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C2

<400> 10999

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gcgcggggct tgcaggcttg tacggcgctg gcgcggcct gacgacgatg atgggcgccc 180  
gcgggctgta cccctacgag gagtacctga ggcagccgca gtgcagcccg ctggcgggcg 240  
cgccctacta cgccgggtgt gggcagccga gcgccatgtt ccagccgctc cggcaacagt 300  
gctgccagca gcagatgagg atgatggacg tgcagtcctg cgcgacgacg ctgcagatga 360  
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<210> 11000

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C4

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tcgccgatgg ccgccaagat ggagccggac ggcggcttcc cttctctctg agatccttcg 180  
gcgactccgg ggaccggatg cagcgcaacg caaactgtgt atagttcaga ttttcttcat 240  
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gaagtagcag caggcatgat tgaagttcca ttgtagtact gatgttcacg gccacttgat 360  
ctgtgacaag tgacggcatt ctttcgtttc ttggctgcaa attcttcggt gtccagaata 420  
taatttcaga tgggtaatgc caattc 446

<210> 11001

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C5

<400> 11001

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aaggcatcat gactctttgc ttcaacccca tgtatacatt gtgaatagtt cagtatacag 180  
taaacgtgag atagaggatt ggaatcccca ggactagaat acatcaaaaag tacaatccgt 240  
gttttttttct ttaaacaaca ggggcggttcg tgtccctcc ttttttttat atttttctaca 300  
aagggatagt atacaagggg cctggttggt tcagcttttt tctgaccagc ttttctgaaa 360  
atctggctgt ggggagaatc tggctgtggg agagaatctg ggtatcatta cgattacctg 420  
tggaggaaga taaagt 436

<210> 11002  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 11002

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acaagacgct caaggaggag ctgctcaccg acccggcctt cgagttcacc gaggagtcac 120  
gccagtggat cgaccgcatg gttgactaca atgtactcgg aggcaagtgt aaccgtgggc 180  
tctctgtggt cgacagctac aagctgctca agggcgctga tgctctgggc gaggaggaaa 240  
cgttccttgc ttgcaccctc ggctggtgca ttgaatggct tcaggctttc tntcttgtgc 300  
ttgatgatat catggatgac tctcacactc gtcgcggcca gccttgctgg ttcagggtgc 360  
ctcaggttgg cttaattgct gcgaatgacg ggatcatcct tcgcaaccat atctcacgga 420  
tcccttcgcg cca 433

<210> 11003  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C7

<400> 11003

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gcctactttc tgtgaactac aggtactttc tcatcaaggg cactgttaat cccttggagt 240  
atccccacctt acttgctttc acgctaatacc ccttcattcc atctgtttta atatctaata 300  
ggccccctccc ttttatcatt cctaa 325

<210> 11004  
<211> 355  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-034-Q1-K1-B11

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atgcagagaa gatactgcag atcaagagag ccgaagggtga tgcagaatcc aagtacttgg 180  
cgggtctggg tatcgcaaga cagcgccagg ctatagtga tgggctcaga gacagtgttc 240  
ttgctttctc tgagaatgtg cctggggacct ctgcaaagga tgtcatggac atggttctgg 300  
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<210> 11005  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-H6

<400> 11005  
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cggaacgcca tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac 180  
gaggcccagt cccgcggcgg ccgtggaggc ggcggcggcg gctacgggtg tggccgtgga 240  
ggcggcggct acggcggtgg cgggcgccgt gatggcggcg gcggctacgg cgggtggcggc 300



ggcggctacg gtggcggcgg tggctacggt ggtggtggtg gcggtacg cgggtggcaac 360  
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 ctggcaagtt atcctgttc 439

<210> 11006  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-H7  
 <400> 11006

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 tagatgaagt tattcttgtg ggtggatcca cccgaatccc tgcagttcaa gaacttgtga 180  
 ggaagcttac tgacaaagat cccaatgtta cgggtcaaccc tgatgaggtt gtatctcttg 240  
 gggcatctgt gcacgggtggc gttttggcac gagacgtgaa agacgtagtt cttctggatg 300  
 ttactccatt atctcttgtt tcggagacat tggcaggagt gatgacaa 348

<210> 11007  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-H9  
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 tgggtggactc acgagtggga gaaacatggc acctgctctg ccctgcggg tcacgatgaa 120  
 ttacagtatt tcacccttgc ccttgacctc tactacaagt atgacgttac agaaatgctg 180  
 tcacgtggag ggatacatgt ttcaaatggc aaagaatatg cactgaacga tgtcatcgat 240  
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 gaactaatgt tactcatcga cagaaaaatg aacctcttg 340

<210> 11008  
 <211> 362

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A1  
  
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 ctcccagact gccgctggta cgtgaccagc cggacctgcg gcatcggggc gcgcctcccg 240  
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<210> 11009  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A12  
  
 <400> 11009  
  
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 aagatattaa gcctcgttgc acttattgcc gttttagaga gctcatcaaa tgcgttcatt 120  
 attccacagt gtcacttgc tcctagtgc attattacac agttcctttt atcagttact 180  
 tcaatgggct tctaacattc agccgtgtaa gccttctgac tacatctagc gctttcagag 240  
 agcgcttac aacaaccaat tgcccaattg caacaacaat ccttggcaca tctaacccta 300  
 caaaccattg caacgcaaca acatcaacat caacagtttc tgccattact gagccatcta 360  
 cccgtgggtga accatgtcac ctacttgcaa c 391

<210> 11010  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A2  
  
 <400> 11010

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 tctccatacc tttcaccatc ggtgtctcca gtatgtgaaa acccatttct tcaaccatac 180  
 aggatccaac aggcgatccc agcaggcatc ttaccttgat caccatcggt actacaacaa 240  
 ccgttagacc tattacagga gttacctctg gagcatccgt tggcacataa catgacggca 300  
 cacctactac aacaacttgt gctacgacac cttgctgcct actctgatga acagtatcag 360  
 cttccattca accaactagc tgcattgaac tctgct 396

<210> 11011  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cgcagccgcc ggctgtctct ccgtgctcgc ggctgccagc gccagcgccg ggacctcctg 180  
 cgtgccgggg tgggccatcc cgcacaaccc gctcccagac tgcgctggt acgtgaccag 240  
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 ggagctggcg gacatcccgg cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg 360  
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 cccgcgggag gtgcagaggg gattc 445

<210> 11012  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-A5  
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caatgccaaag cttttataag gaaccaaccc ctgccaaagg tgaattgaaa aagatccccc 120  
caaccagagc taaatcacca aagcttggtc ggtctaaaaa caagtccata tcagagactg 180  
aagaaaatac tactacggac caacctgccc gtctgagcct tgacgaaaag gttttctcaa 240  
acgggtgtgaa aaaaccaacc ccgtcgagtt cagcaaagaa gccccagaga aagtcactcc 300  
ccaggctgcc atctgaagaa acttgctcgc ttgatgccac ctcaaggcag ctgaagaaca 360  
acaaactgga tgaagttaat gctcaggaga caggatcagc tacagggcag gtacaagga 419

<210> 11013  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A7

<400> 11013

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tcacattctt catcacttgg tggtttatcc aatttgttga tggttttttt cagccactc 180  
tatgcaaaac tggggtttga catattcggc cttgggttct tgacctccct ggtgtttata 240  
cttcttggtg gaatctttgt gtcttcttgg gtgggttcaa cggctctctg ggttgagaa 300  
tggtttataa agaaaatgcc ctttgtaagg cacatatact ctgcatcaa gcaagttagc 360  
actgctgttt caccagatca aaatacaaca gcattcaaag aagtagcaat cattagtcac 420  
ccccgtgttg gtgaat 436

<210> 11014  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A8

<400> 11014

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tcacaagctc ctatagcttc ctttcttccc ccatactct caccagcggg gtcttcagta 180

tgtgaaaacc caattcttca accctacagg atccaacagg caatcgcagc aggcattctta 240  
 cctttatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtg 300  
 catttggttg cacaaaacat caaggcacia caactacaac aacttggtgct aggaaacctt 360  
 gctgcctact ctacagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct 420  
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<210> 11015  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-A9

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 acccgaatat caacagcaac gggagcatct gtcttgatat cttgaaggag caatggagcc 180  
 ctgcactgac agtttctaag gtctctctct caatttggtc ccttctgacg gacccaaacc 240  
 ctgacgatcc gttgggtcca gagattgctc acttgtaaaa gactgatcgc gtgaagtacg 300  
 aatctactgc taggagctgg actcagaaat atgcaatggg ctgacaagct attggtctct 360  
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<210> 11016  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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tactatctca ctattgaagt gaaggatggc gaagtcaaga agctctacga agctaaggtc 300  
 tgggagaagc catgggagaa cttcaaggag ctgcaggaat tcaagcctgt tgaagagtgt 360  
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<210> 11017

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 atggacggat atccggtgct tgctttgatg cggctttggg aatcattcca gggctaaagg 180  
 ttcgtggaac tgattactcc actgcagatg gaacttgtat tagggactac atcgatgtca 240  
 cagaccttgt agatgcccac gtcaaagctc ttggtaaagc tcagccaggc aaagttggaa 300  
 tctacaacgt cggaacaggc caaggtagat cggtgaccga gttttagtaa gcttgcaaga 360  
 aggcaacggg agctttcatt caagtcgaat atnctgccc tagacctgga gattacgccg 420  
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<210> 11018

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F9

<400> 11018

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 gtggcggcag attcgggtggc cgacgtggtg gtagggatgg cggccgagga cgtggtggcc 180  
 gtggctttgg taacaagcac agcgtggtg ctcccagtgc aggaaagaag actacttttg 240  
 gtgatgattg atgatgaacg cggaggatgc tgcaaaagga tccaatgaaa ttgtgttttt 300  
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<210> 11019  
<211> 437  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-G1  
  
<400> 11019

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cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata gcttcagtat 180  
gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatgcgagca agcaacatac 240  
ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag tcattggtac 300  
aaaccatcat ggcacagcat ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 360  
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<210> 11020  
<211> 388  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-G10  
  
<400> 11020

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agatgatgat gcagcttgag cgtgccgc 388

<210> 11021  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-G4

<400> 11021

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ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc agatgatgat 360
gcagcttgag cgtgccgctg ncnacagcag cagcctgtac gagccagctc tgatgcagca 420
g 421
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<210> 11022  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G5

<400> 11022

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aaaatacaac atctttcaaa attccaaaaa ataaaaaaac aacaaaaaaa ggtcttccat 120
tttatatgat ccaaccttca ttactcttac atccacttta ttacctacct tatactttca 180
ccaaactcaa attcatttcc ccttatTTaa caatttcttc attgacaaaa cccttgattt 240
ccccaaactaa a 251
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<210> 11023  
 <211> 372  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-033-Q1-K1-G6

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gcggggccgga tcgtgatgga gctgtacgcc aacgaggtgc ccaagaccgc ggagaacttc 180  
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<210> 11024

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-G7

<400> 11024

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acggaagcaa agtttctggt gaccttattc taaagccatc tgaagatgac ctcaagtgtc 180  
ggccacattg gtttgagtgc cgtctgaggg cctatctttc aaaagatggg gacttgtcat 240  
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catatctttc tgattctgac atcagtgacg tcaggattga aggtctggag acacttgatc 360  
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<210> 11025

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G9

<400> 11025

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aatccccgaaa gagggggcgga cacattgaga aatgacattt cattgaggcc gtgaagatac 180  
aagaatgtgg aagtcattgtt cgcttcaatg gttctgctgc ctatttatgt ttcttgtggg 240  
ggggagaagg tgcttccagt tggagatccc ggtagcttca tagaaatgta cgatgatttt 300  
tgtaaaacga atggaagggtt gcatttgcaa attatcacct tttttgacaa gatagtagta 360  
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<210> 11026  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-H1  
<400> 11026

cctgagtctt gtcgctgccg ccgggatggc cggagtcacc gccaccggga tggccggggg 60  
tgccgccacc ttctcctcag ccaccgctca gatcgggggc ttctctctga agaagcctta 120  
cgcgccgccg ttgtggggcca cgcacctctt ccccatgcct tgccatacct tctcgtctcg 180  
ccatttccca acaccgatcc acaagtggaa tctgccaat ttgccggaag gaacggaagt 240  
gtggatcaag cgagacgatt tatcaggcat gcagttgagt ggaaacaagg tccggaagct 300  
ggagttcttg atggcagatg ccgtagcaca aggcgcagac tgcgttatta ctggtggggg 360  
tatacagagt aaccactgtc gtgccacaga cgtggctgct aagtatctca atcctgaatg 420  
ctacctgata ctacgt 436

<210> 11027  
<211> 401  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 11027

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ccgggtttca acaatcgcca gccctatctt tgggtgcagtc attggtacaa accatcaggg 120  
cacagcagct gcagcaactc gtgctacctg tgatcaacca agtagctctg gcaaaccttt 180  
ctccctactc tcagcaacaa caatttcttc cattcaacca actgtctaca ttgaaccgtg 240  
ctgcttattt gcagcaacaa ctattaccat tcagccagct agctactgcc tactctcagc 300  
aacaacaact ttttccattt aaccaattgg ccgcactgaa ccccgctgct tatttgcagc 360  
agcaaatact actaccatnt aaccagctag ctgcagcaag c 401

<210> 11028  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H2

<400> 11028  
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acgacagttg ctgccgttct accagcagtt tgcggctaac cccgcaacct tcttacaact 120  
acaacaattg ttgccctttg tccaacttgc ttgacaaac ccagcagcct cctaccaaca 180  
acacatcatt ggtggtgccc tcttttagat tgcttattag atgtaattca ataataaagt 240  
tttttggatg atgtatgtgg ccaaccagaa ataaaaagtt acatttccaa aaaaaaaaaa 300  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
aaaaaagggc gg 372

<210> 11029  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-F7

<400> 11029  
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ttccctcctt atgctccttg ctctttctgc atgtgttgct aacgcgacaa ttttccctca 120  
atgctcacia gctcctatag ctcccttct tccccatac cttccatcaa tgatagcttc 180  
agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg cagcaagcaa 240

cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt 300  
 ggtacaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga tcaaccaagt 360  
 agctctggca aacctttctc cctactctca gcaacaacaa tntcttccat tcaaccaact 420  
 gtctacactg aaccc 435

<210> 11030  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E11

<400> 11030

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 ttgttcgctc tcctagctct ttgtgcaagc gccactagtg cgacccatat tccagggcac 120  
 ttgccaccag tcatgccatt ggggtaccatg aacccatgca tgcagtactg catgatgcaa 180  
 caggggcttg ccagcttga 199

<210> 11031  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-E12

<400> 11031

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 ggcactcccc atccccggct ttcttcttgc aacagaaccc agcattttca cacgttggca 120  
 ttgacacgta cccagtgcc acgcccagag tgcaccgagc aagcttggca gaagccgttc 180  
 gagcaccggc ggcgcccgcg ttccacagtg catcttcggc tgtggcgaac cggaccatgg 240  
 gcgcggaccg cgtgggtcaa ggtctctagt caggttgact cgatagataa agattctttc 300  
 tcttctgact cgagaccaag atcaggttga ttcgagagac aaagattttt ttctcctctg 360  
 acgagacaaa gattctttct cctcgtccag atagtgatgt ctgga 405

<210> 11032

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-E5  
  
 <400> 11032  
  
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 tgcacttttt gcgagcgcta caaatacatt cattattaca caatgctcac tcgctccaag 120  
 ttccatcatt acacacatcc taccaccagt tacttcaatg ggcttccaac acccaactgt 180  
 gcaagcctat aggtacaac aagccatttc cgccagcgtc ttacaacaac caattttcca 240  
 tttgcaacaa caatccttgg cacatctaac aatacaaacc atcgcaacgc aacaacaaca 300  
 acaattccta ccatcactta accacctaac cattgtaaac cctgccgtct acttgcaaca 360  
 gcaattgctt gcatcacacc cactttctct tgcaaac 397

<210> 11033  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-E8  
  
 <400> 11033  
  
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 ggcttcgacg cgccccggt catcggcaac ggcgcggtcg gcaccgtgta caagggcatc 120  
 gtgccggaca cgggcgccat ggtggcgtg aagcgctgca gcagcaccgg cgcgcgcggc 180  
 ggaggcaacg cgagcggcga gcaggcgcg tccgagttcc tgcggagct gtccatcatc 240  
 gcgggggtcc ggcaccgcaa cctgctccgg ctgcaggggt ggtgctacga gaagggggag 300  
 atcctgctgg tgtacgacta catcgcaac ggcagcctgg accgggcgt gtccgacgcg 360  
 tcggcgcccg tgctgccgtg gcgccaccgg cgcgagggcc tggcnnccg ttgcgtcgcg 420  
 cttgcgtac 429

<210> 11034  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E9

<400> 11034

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgcc cacgcgtgcg 60  
ggagagttct ggtgctatct gcacatatat cctctctata cacttgtaaa aactgacaa 120  
ttctgtatct gtatgaagta tatcataact tacaacggt gttattcccc agctacacta 180  
cttgtctggt gtatatctct ttttttctc gaaagcgcag gagaactgcg cgatattata 240  
ttaagcatat aggggtttct ttttgggac ttctgagttt gagccttttc atagaatatg 300  
gaaatcttgg gctcctccaa aaaccaagtt ttttatgtgg ttggcgcac acaggaaggt 360  
ttggacggca gatagactgc agaaaagggg tatggaccat ccaagagat gtccactatg 420  
tg 422

<210> 11035

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-F1

<400> 11035

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tcgaaggggc aatagacagc aggcagggcc ccgaactgcg ggaggagatt cccaaggatc 120  
tcgtcgcccg ggtagaggaa gggacgggga cgggcgatgg cggcggacgg cggcggcggg 180  
gtggactggg agagcctggc ggaggccacc tccggggcaa tcggctcgct cgtcagcacc 240  
accgtgctct acccgctcga cacctgcaag accaagttcc aggccgagct ccagacgcac 300  
cagggcgctc agaagtatag gaacctttca gatgtctttt gggaagcgat tcgtaaaaag 360  
caatttttgt ccctatatca gggcctgaac acgaagaaca ttcagtcttt tgtctnctcg 420  
gtttttaatt ttatgggtat agctatttta aa 452

<210> 11036

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F11

<400> 11036

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ttcctatatc ccaacatcaa caacagttat aacaaattct accacagatc actcactttg 120  
tcatccacaa ccctattgac tacctacaac agcatcaaca ccttctatct acccaactcg 180  
atatcaacaa tatacctaca aacatacaac aactgttctt acaacaacac ctt 233

<210> 11037

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F12

<400> 11037

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gtgactgctt caacagtggg ataaataaga tatttgtgat gagtcagttc aattctactt 120  
cgcttaaccg ccatattcat cgtacatacc ttgaaggcgg gatcaacttt gctgatggat 180  
ctgtacaggt attagcggct acacaaatgc ctgaagagcc agctggatgg ttccagggtg 240  
cagcagactc tatcagaaaa tttatctggg tactcgagga ttattacagt cacaaatcca 300  
ttgacaacat tgtaatcttg agtggcgatc agctttatcg gatgaattac atggaacttg 360  
tgcagaaaca tgctcaggac gatgctgata tcactatatc at 402

<210> 11038

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F2

<400> 11038

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ggcaccgatt cgagcagggc gacgtggtgg ccatgccggc cggcgcccag cactggctgt 120  
acaacgacgg cgacgcgccg cttgtggcgg tctacgtctt cgacgagaac aacaacatca 180  
accagctcga gccttccatg aggaaattct tgctggctgg gggcttcagc aaggggcagc 240

cccacttcgc cgagaacatc ttcaaaggga tcgacgcccg gttcctgagc gaagccctgg 300  
 gcgtcagcat gcacgtcgcc gagaagctgc agagccggcg tgaccagcga ggcgagatca 360  
 gccgcgtgga gccggagcac gggtttcacc agctgaatgc gtcggcgctc tcg 413

<210> 11039  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F3

<400> 11039

ccgacgcgtc cgcggacgcg tggggccctc agtcctccag ccacttgagc ctctaagac 60  
 agtcgcattt caccggttca tcttctcgga gtttctcaac aagatgggtc gtcaccgcaa 120  
 tcttttggtg gtggagttca tcagtgactc cgacgaaatc taggaggaat cgcctgttcc 180  
 ttctcctgcg tctcatcgat ctctctccaa gagaggacta ggctctggcc gtttggaagg 240  
 ggagggaccc tcgatgccct cgcaaccgcg gcgccagggg cgtcaaaagg ttggcgccac 300  
 tcgttctcgc caaagcacct tctccgcttg ataccttca tgccaggagg aggatggagc 360  
 gttcgacgac taggtctaac ttccatcttt cgac 394

<210> 11040  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F4

<400> 11040

gagaccatga gtcacacgga gtgcggtggc tgcggcggct gcgcctagac gtcgttgcc 60  
 ggggtggctg ggctgagcgt ggaggacgcc aagaagggtga tctcaagga caagccggac 120  
 gccgacatcg tgggtgctgc cgtcggctcc gtggtgaccg cggattatcg ccctaaccgt 180  
 gtccgcatct tcgtcgacat cgtcgcccag acgccccaca tcggctgata atatataagc 240  
 tagccgctat ttcctttcct tgccccagaa cttgaaataa atatataac gatgaaataa 300  
 cgcgggcatg ccg 313

<210> 11041



<211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-F5  
  
 <400> 11041  
  
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 cattattgat caagatggaa atggaaagat ttctaacatt gatatccaga ggattgccaa 120  
 agagctgggt gtaaattctca ccctcgatga gatccaagac atggtgcaag aggctgatag 180  
 aaatggtgac ggtgaaatag actttgacga gttcatcagg atgatgagga ggaccagctt 240  
 tggctactag gtgcatttat ctgcgagtgc ttgacgcttc cagtttgttt atgactaccg 300  
 tgcgtgtggt aatcaactgg tgtggttact atgaacaatg tgctctggtt tcgcttttat 360  
 atataatttt aatttaattt taatt 385

<210> 11042  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-E1  
  
 <400> 11042  
  
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 cttgcgcttc ttgcgctttt tgcgagcgca acaaatgcgt tcattattcc acaatgctca 120  
 cttgctccaa gttccattat tacacagttc ctcccaccag ttacttcaat gggcttcgaa 180  
 caccagctg tgcaagccta taggctacaa caagcaattg cggcgagcgt cttacaacaa 240  
 ccaatttccc agttgcaaca acaatccttg gcacatctaa caatacaaac catcgcaacg 300  
 caacagcaac aacaattcct accagcactg agccacctag ccatggtgaa ccctgccgcc 360  
 tacttgcaac agcagttgct tgca 384

<210> 11043  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-C8

<400> 11043

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atcttaagca gtatccagac aatttcaggt acgacaaagc cctcagcagg gagcagaaga 120

acaggagcgg cggcaagatg tacgtccagg acaagatcga ggagtacagc gacgagatct 180

tcaagctcct ggacggcggc gcgcacatct acttctgcgg cttgaagggg atgatgcctg 240

gaatccagga cacccttaag aaggtggcgg agcggagagg cgagagctgg gaccagaagc 300

tggcccagct caagaagaac aagcaatggc acgtcgaggt ctactagggc tcggattgct 360

gtggttgcca cccttgatgc tgccgngca gcgtcaggag acaaacacat gattgaaatg 420

aatcgatgga tg 432

<210> 11044

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C9

<400> 11044

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ctgaccttga taaactatat attacaaaag tgagtagctc tataggctct gcttatgaga 120

tttttatgga tattttttat tacactcgta atggttggtt ccatttggtt tttttgtcaa 180

agttcatgaa gaaattgttt cttatgccta gcaaacgctt caaatgcaag gaaatggtta 240

gttgaggggc ataccgatgg tgctctttta agttatgcag ttgctgcctc aagctttctg 300

cctccctttg ccagagctag taagattgga aaagctttca attaattaac ataaatgaga 360

gtgactggac aaccatatga tctctacttt agagtaggga ctacaactac aacgaaaaga 420

a 421

<210> 11045

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D10

<400> 11045

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tcaaagggtga acttgctggt ttggaactag aactgcaggc tctgggtggc ctagctgaag 120  
aggttgctaa ttttgatggt ccgttagggt ctaggaagat aaacggaaaa tatattcaat 180  
ctcatcttct ctccagatta gaagctgtcc atgataagat tatggaacag gtaaagagt 240  
ttgacgcttt aaagacccaa gaaattcctg tctactggat tggcatggct gagaatgtgc 300  
agatcatggg ttcattcgat ggatggtcac agggcgaggc gatgtccatg gagtattcag 360  
gtgactacgg aagattctct gcgactctga agc 393

<210> 11046  
<211> 333  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-D12  
<400> 11046

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gggccagtgc gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc 120  
gcctcagtgc cagtcgttgc ggcagcagtg ttgccagcag ctccaggcagg tggagccgca 180  
gcaccgggtac caggcgatct tcggcttggc ccttcagtcc attctgcagc agcagccgca 240  
aagcggccaa gtcgcggggc tgttgccgc gcaaatacg cagcaactga cggcgatgtg 300  
cgggctgcag cagccgactt catgcccta cgc 333

<210> 11047  
<211> 374  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-D2  
<400> 11047

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cgcatcaccg gtaccaggcg atcttcggct tggctctaca gtccattctg cagcagcagc 120  
cgcaaagcgg ccaggtcgcg gagctgttgg cagcgcagat agcgcaacaa ctgacagcga 180  
tgtgcggcct gcatcaaccg actccatgcc cctacgtgc tgccggcggt gtccccact 240

gaagaaacta tgtgctgtat tatagccgct ggctagctag ctagtagaag catttaccgg 300  
 agatgattga gttataatgt gtcacgcatt agcatgggtg gcagtgtcag tgtagcaat 360  
 gaccttgatg aaac 374

<210> 11048  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-D4  
 <400> 11048

aagtgatctg gactcagagc gctggccaaa ctgcactgg cgttctgtga aggttggggg 60  
 ggatgagtct acagctgggtg ataaacagcc aagagtttca ctctgggaga ttgagccact 120  
 gacaaccttt ccgatgtacc caactgcttt tccattaagg ctaaagcgtc cgtgggcttc 180  
 aggactacct atgttcaatg gtgggaggag cgacgagttc gctcgttatt cttctctcat 240  
 gtggcttcga gatggaaacc gaggggctca gtcactgaac ttccaggagac ttggagcatc 300  
 accatggctt cagccaagaa tagattatcc attgttgagt ctgaagccag atacttacca 360  
 gcagatggct gccgccgcac tagaagaaat tagagctggg gatcatttga agc 413

<210> 11049  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-D5  
 <400> 11049

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 cacggcatgt cggaggagca gttctctgcc gtggcggtgg aagccgccaa gagcgccggc 120  
 gagattattc gcaagggatt ctaccagacc aagaacgtcg agcacaaggg ccaggtggat 180  
 ttggtgacgg agacggacaa ggcttgcgag gacctcatct tcaaccacct ccggaagcac 240  
 ttcccggacc acaagttcat cggggaggag gagtccgcgg cgctcggggc caccgatgac 300  
 ctcaccgacg accccacctg gatcgtcgat cccctcgacg ggaccactaa tttcgtccat 360  
 gggttcccat ttgtatgtgt ctccgttggc ctcaccattg ggaaaattcc cactgtcggg 420

gtcgtc

426

<210> 11050  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D6

<400> 11050

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ttggaattga tgactgctgg aggaatgagc acttctgggt cattggaggt ctgtcctcac 120  
acctctttgc tgtgatccac ggacttctca aggtcatagc tgggtgttgat acaagcttca 180  
ccgtgacatc caacggtggc gatgatgact gagttctcac agctatatac attcaaattg 240  
actaccttat tgatacctac taccaccttg cttctattga acttcattg 289

<210> 11051  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D7

<400> 11051

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gccgccttat ccgagcagtc tctcggccc agccggggat ccaagcggga tggggtactt 120  
gagctccgtg atcgggcacc ccaccgatgg atcctccgtc agcggcggcg gcctcagcca 180  
gaatggtaga tttagctatg gctatgcaag ctcccctggt aaaagggcat ccatggaaga 240  
cttctatgag acaaaaattg attgtgttga tggtcagata gttggtcttt ttggagattt 300  
tgatggatcat ggcggtgcta aggtagcaga gtatgttaaa gaaaacctgg tcaacaatct 360  
tgatagtcac ccaaagttca tcagtgtatc taaagtcgct atagatgatg ct 412

<210> 11052  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D8

<400> 11052

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ccaagacatc cgccgatctc agatggccgg gagaaggggtg cgcggaaga gtgccgtggc 120  
cgtggcggcc gtgcgcgtgc tggcgcgtct ctgcggggcg agcgaggccg actggacgtg 180  
caacgtcgac cggggcacgg tgctgaggca gtgcgcgtcc tgctcgagcg gcgcgccgag 240  
ccaggggtgc tgcgacgcgc tgaggaacgc cgacttcggc tgccctctgca gcaactactg 300  
gaacaagctc aagaacacgc catacgccag ctgcgccaag gccatccctt tcgctgtaa 360  
cctgccaaac gccaaagtgc agtagatgga gacatggagt gcgtgaccgc gacagctaac 420  
gggcagc 427

<210> 11053

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-D9

<400> 11053

aatattttga gcattcagaa acacactaag cgaagcgcac tagcaacgac ctaacaggaa 60  
tggctaccaa gatattagcc ctcccttgcgc ttcttgccct ttttgtgagc gcaacaaatg 120  
cgttcattat tccacaatgc tcacttgctc ctagtgccat tattccacag ttccctccac 180  
cagttacttc aatgggcttc gaacacctag ctgtgcaagc caacatgcaa caacaagcgc 240  
ttgcggcgag cgtcttataa caaccaattg cccaattgca acaacaatcc ttgccacatc 300  
taacaatata agccatcaca acgcaacagc aacaacagtt tctaccagca ctgagccacc 360  
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<210> 11054

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B12

<400> 11054

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cgcgctcagg gtcagggagg cgaagatgat cgaggtggtg ctgaacgacc gcctggggaa 120  
 gaaggtgcgg gtgaagtgca acgaggacga caccatcggc gacctcaaga agctggtggc 180  
 ggcgagacg gggacgcgcc ccgagaagat ccgcattcag aagtgggtaca acatctacaa 240  
 ggaccacatc acgctcaagg actacgagat ccacgacggg atgggggctcg agctctacta 300  
 caactaggcg ccctgacccc aaccgtgccc tgatgtaagg ttaatccgaa ttctgaagtc 360  
 atgggtgcgc ttccagtcgc agcgtcttta gctaacaagc tcgcatacat ataggcaact 420  
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<210> 11055  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-B2  
  
 <400> 11055

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 ttcagagaga ttagaagaag gtactgacca agcatctcaa ataagccaat ttcttgaggg 120  
 atacagagca ggaagaacaa caaagaagaa aattagcggc ccttctttca tgggtttcct 180  
 gaattctctg gtcagcttga cctcgctgta catccttata ttcgtcattg cccttctgtt 240  
 tgtcatgggtg tacttttgctg ggcaagatga tactccacag ccaagacgaa ttcatgaaga 300  
 gtgatggaag cttgggggagc ttcttgacc tgaagtgtaa agatggctaa tgtaccanga 360  
 gatgtagctc agaggttata gatttcaaac tt 392

<210> 11056  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-B3  
  
 <400> 11056

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atgtcacaaa gtcctatag cttctcttct tccccatac ctctcaccag cgttgtcttc 180  
 agtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagcaggcat 240  
 cttaccttta tcacccttgt tcctccaaca atcatcagcc ctattacatc aattaccttt 300  
 ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaactcg tgctagcaaa 360  
 acctgctgcc tacgctcatc aacaagcagt acctttgggtg catttggttg cacaaaacat 420  
 tatggcacaa caac 434

<210> 11057  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-033-Q1-K1-B4

<400> 11057

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 gggctcgtc tcctggctct cgctgcgagc gccacctcca cgcatacaag cggcggctgc 120  
 ggctgccagc caccgtcgcc gggtcatcta ccgccgccgg tgcattctgcc acctccggtt 180  
 cactgccac ctccggtgca tcttcaccg ccggtecacc tgccgccgcc ggtccacctg 240  
 ccaccgacgg tccatgtgcc gccgccggtt catctgccga cgccaccatg ccactaccct 300  
 actcaaccgt cccggcctca gtctcatccn cagccacacc catgcccgtg ccaacagccg 360  
 gattccagcc cgtgccagc 379

<210> 11058  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B5

<400> 11058

cccacgcgta cgcccacgcg ttcgcccacg cgtccgcaac tagcaacata gagagcagaa 60  
 tagtgtacca acaatggcag ccaaaatatt ttgcctcctt atgtccttg gtctttctgc 120  
 aagtgtgct actgcgacca ttttcccgca atgtcgcgaa gtcctatag cttcccttct 180  
 tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa aacccaattc ttcaacccta 240



caggatccaa caggcaatcg cagctggcat cttaccttta tcacccttgt tcctccaaca 300  
atcatcagcc ctattacaac agttaccttt ggtgcattta ttggcacaaa acatcatggc 360  
acaacaacta caacaacttg tgctagcaaa ccttgctgcc tactc 405

<210> 11059  
<211> 299  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-B6  
<400> 11059

cccacgcgtc cgtcaacggg ctttgggcat ttgcgaattg ctaatgatga tgtgtacgag 60  
ttagctgaga atatcaaac caagggtcgt aagatcaccg gcgaacctgg tcctgtcacg 120  
ggacgatcca ctgttcttgc cttagcacia gatcctcatg tctacatgtt tgagcttatt 180  
ctgaggtctg actcacctga gtctctttgc caatatacgc tattgggtctt ttacctttat 240  
cgtgtactaa gctgtacgag atggtcctac acatgcaact cctattgatg aaggatgat 299

<210> 11060  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-033-Q1-K1-B7  
<400> 11060

cggacgcgtg ggcggacgcg tgggtagcaa catagaaagc acaatagtgt acgaacgagt 60  
ggcagccaaa atattttgct tccttatgct ccttgggtctt tctgcaagtg ttgctaccgc 120  
aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc catacctctc 180  
accagcggtg tcttcaatgt gtgaaaaccc aattgttcaa ccctacagga tccaacaggc 240  
aatcgcaaca ggcattctac cattatcacc cttgttcttc caacaaccgt cagccctatt 300  
acagcagtta cctttggtcc atttgggtggc aaaaaacatc agggcacaaac aactacaaca 360  
acttgtgcta gcaaaccttg ctgcatactc tcagcaacat cagtttc 407

<210> 11061  
<211> 364

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-B9  
  
 <400> 11061  
  
 aagaaaaaaaa acaaataaca acataaaaag cacaataata taccaacaat gacaaacagg 60  
 atcggtcgct ttcttagacc caaaaggctc gtatgcaagc attagtaaag ctaacatttt 120  
 tatacagtgc tcacaatcta atatatcttc cgttgtttta ccataactca aatcagagga 180  
 ctcttcaatg taccaaatta caattgctta accctactcg atccaacatg caatcgcaac 240  
 aagcctatta ccattatcac gcttgcttcc ccaaaaaccg tgacccttat tacagcaaat 300  
 acctatgggc ccatttatgg cacaaaaaat ccggccacaa catctacaac aacttgctgc 360  
 acca 364

<210> 11062  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-C1  
  
 <400> 11062  
  
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 gcagccaaaa tattttgctt ctttatgctc cttggctttt ctgcaagtgc tgctaccgca 120  
 accattttcc cacaatgctc acaagctcct atagcttcc tttttcccc atacctctca 180  
 ccagcgggtg cttcagtatg tgaaaacca attcttcaac cctacaggat ccaacaggca 240  
 atcgcagcag gcattctacc tttatcacc ttgttctcc aacaaccgtc agccctatta 300  
 cagcagttac ctttggtgca tttgttgga caaaacatca aggcacaaca actacaacaa 360  
 cttgtgctag gaaaccttgc tgcctactct cagcaacagc cagttcttcc attcaaccaa 420  
 ctg 423

<210> 11063  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-C10

<400> 11063

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cgttgaccag ggatcggaag accgcgttcg acatagccga gggccttccc ctgtcagagg 120  
agtctcaaga aatcaaggag tgctgtccc gtgcgggtgc ggtcagagca aacgatctga 180  
accagcctcg ggacgagctg aggaaaacag tgacagagat aaagaaggac gtgcataccc 240  
agctggagca ggcgaggaaa accaacaaga acgtgtacgg catcgccaag gagctgaaga 300  
agctccacag ggaaagcatc aacaacgcga cgaactcggg gaccgtcgtg gcggtgctgt 360  
tcgcgacggg ggcgttcgcg gcgatcttca cggtgcccg 399

<210> 11064

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C12

<400> 11064

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ttgtggcggg ctacgtcttc gacgagaaca acaacatcaa ccagctcgag ccttccatga 120  
ggaaattctt gctggctggg ggcttcagca aggggcagcc ccacttcgcc gagaacatct 180  
tcaaagggat cgacgcccgg ttcctgagcg aagccctggg cgtcagcatg cacgtcgccg 240  
agaagctgca gagccggcgt gaccagcgag gcgagatcgt ccgcgtggag ccggagcacg 300  
gctttcacca gctgaatccg tcgccgtcgt cgtcgtcgtt ttcgttccca tcgtcacaag 360  
tccagtacca aacgtgccag cgcgacgtcg acaggcacia cgtctgcgcc at 412

<210> 11065

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C3

<400> 11065

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caggcttcct agtgaagcac cattgattat tgagaactgc cgtccaccat catcatggcc 120

tcagaatgga aacattgaac tgattgatct caaggtccgc tacaaggacg atctaccatt 180  
 agttcttcat ggtgtaagtt gtatgtttcc tggcgggaaa aagattggga ttgtagggcg 240  
 tactggaagc ggtaaactca ctcttattca ggcccttttc cgcctaattg agccactgg 300  
 agggaagatt ataattgaca acattgacat ctctgcaatt ggccttcatt atctgcggtc 360  
 acggttgagc atcattcccc aagaccctac attatttgag ggtactatca gaatg 415

<210> 11066  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C4

<400> 11066

caaggacaag gacgacccca acctgggcat caagatcaac gccaccctcg cgctcgggct 60  
 cggcaacgcc tgcggcgcca cccgcgcca cgtctccac tgcgctcagc tcctgcatat 120  
 tccccgggc tccaaagacg ccgctgtctt cagcccccg cggcgacaag ggctccactg 180  
 ccgctccagc caaggacaac tcgacggcga cgaccgact ccgcgcgc 228

<210> 11067  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B10

<400> 11067

gcatagccat cttcttcgtc gacaagcttg ggagttaggt ctcacatgca tgcttcagca 60  
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 ctgtgatgct tatgccttca attgggcttt tctttgcttc ggtgttctgg tctcgtctgg 180  
 gtttcagact ccagatttgg agcataagac accggctcctt ggtttccttg ccgccttgcc 240  
 ggctgcaatg ttatggcgct tgcgggtgta tgtatagcct gaattctgtg atgacggtga 300  
 agttctcggt gttgggaaat tttttctgtg ctttctcttt tc 342

<210> 11068  
 <211> 331

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-H5  
  
 <400> 11068  
  
 agcaacatag aaagcacaat agtgtaccaa cattggctgc caaaatattt tgctgcgta 60  
 tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccgcaa tgctcgcaag 120  
 ctctatagc ttccattctt ccccggtacc tgtcaccagc ggagtcttcg gtatgtgaaa 180  
 acccaattct tgaacctac aggatccaac aggcaatcgc agctggcatc ttaccttgat 240  
 cacacttggt cctccaacaa tcatcagccc tattacaaca gttacctttg gtgcatttat 300  
 tggcacaata catcatggca tcatcaacta c 331

<210> 11069  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-H6  
  
 <400> 11069  
  
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 agggcagatc tatttttggg gcttcggcag aagaattttg atcctttccc aaagaaaaaa 120  
 aagagggctg aaccagctgc tgtaggtgct ttagaagagg aggaaaatga agagagtcct 180  
 gaagctgctg gagcggaacc tagtgactat gagtatctcc tctcaatgac aattggtacg 240  
 ttgactttgg aaaagataca ggagcttaat gctgagaaac ataaattagt ggatgatngt 300  
 gaggaattgg agaatatgtc accaaaatca ctat 334

<210> 11070  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-H7  
  
 <400> 11070  
  
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aagtggaatc cagtagcaac aatagagcaa caatggcgac caagatattt tccctcctta 120  
tgctacttgc tctttctgca tgtgttgcta acgcgacaat tttgcctcaa tgctcacaag 180  
ctcctatagc ttaccttctt ccaccatacc ttacatcaat gatagcttca gtatgtgaaa 240  
accagctct tcaacctat aggcctcaac aagcaatcgc agcaagcaac atacctttat 300  
caccttggt tcaacaatcg ccagccctat cttttgtgca atcattggta caaacatca 360  
gggcacagca gctgcagcaa ctcgtgc 387

<210> 11071

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H9

<400> 11071

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acattgacta agctcttaaa accactattc accaacaag agatgacgat ccttatggca 120  
gatctctatg cacatggtaa gaccaccatc ctctactagc tcaagctagt agaaatcgcg 180  
accaccatcc ctacaatcgg gtttaatgtg gagactgttg aatacaagaa cattagcttc 240  
actgtctggg atgttggagg tcatgacaag atcaggccat tgtggaggca ctatttccag 300  
aacaccaag gccttatctt tgttgctgat agcaatgaca gagatcgtgt tgttgaagca 360  
aaggatgagc tccacaggat gctg 384

<210> 11072

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-A1

<400> 11072

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catccatggc gactaggggtt tggtcaccg cctctctgct tggtttcttc gtcgccgcct 120  
cccccttcac cggccgagtt gctagagctg aatccgagga agatgctgct gcagctgagg 180  
ttgttgaagg ggctgatcta ggtattgtgg gtgatgatac acaggtttcc agtcatggac 240

ctttaagtcc tgctcctggg gtagagacag tagttgtctt cccaaaaaat gctggcaaaa 300  
 ttgtactagc aggtgaagaa actgaattac tagttgggtct gcaaaatgac ggtgaatcaa 360  
 ttttgaatgt tgntgctgnt cattcaactc 390

<210> 11073  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-A11  
 <400> 11073

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 ccgcgggtgtc gctgcgggttc gagggcggcg gcgcgctgcg gctgccggcg aagaactacc 120  
 tgatccccgt ggacggagcc ggcacctact gcctggcggt cgcgccgacg aacgcggccg 180  
 tgtccatcat cgggaacgtg cagcagcagg gcacccgcgt cagcttcgac accggcaggg 240  
 gcgccgtcgg cttcaccccc aacaagtgtc agcctagcct agcctaagcc tgacttctgg 300  
 ctaaccgtgc cctgttagcc acggatgtca gtagcaatga caagccggtg tttgactagc 360  
 gggagaatga ttagatgggg ggtaattgac cgggtgggcc tgccgaatct ggggag 416

<210> 11074  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-A12  
 <400> 11074

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 gagtttctga ggcattcagt cagcccagcg gcgacgcctt actgctcgcc tcagtgccag 120  
 tcgttgccgg agcagtgttg ccagcagctc aggcaggtgg agccgcagca ccggtaccag 180  
 gcgatcttcg gcttggctct ccagtccatc ctgcagcagc agccgcaaag cggccaggtc 240  
 gcggggctgt tggcggcgca gatagcgag caactgacgg cgatgtgcgg cctgcagcag 300  
 ccgactccat gccctacgc tgctgccggc ggtgtcccc actgaagaaa ctatgtgctg 360  
 tagtatagcc gctggctagc tagctagttg agtcatttag cggcgatgat tgagtaataa 420

t

421

<210> 11075  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A2

<400> 11075

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gggccaacag attaacattc ttcattcaaca tatttttcgt ctttaattctc atagctattt 120  
ctgcatgcgt tgcttacgct acaaattcagc ctttaattgctc acaacctcat atagcttacc 180  
taatagcgag atacctctta tcaatgatag cttacattat tctaaaaccc agctttttcat 240  
ccatataggc tacatccatc cacttcatca cgcaacatac ctatatcacc cttcttgact 300  
caactataat ca 312

<210> 11076  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A3

<400> 11076

agctactgcc tactctcagc aacaacaact tcttccattt aaccaattgg ccgcactgaa 60  
ccccgtgct tattttgcagc agcaaatact actaccattt agccagctag ctgcagcaaa 120  
ccgtgcttcc ttcttgacac agcaacagtt gctgcctttc taccagcagt ttgcggctaa 180  
ccccgcaacc ctcttacaac tacaacaatt gttgcccttt gtccaacttg ctttgacaga 240  
cccagcggcc tcttaccaac aacacatcat tgggtggtgcc ctctttttaga ttgcttatta 300  
gttgtaattc aataataaag ttttttggat gatgtatgtg gcccaaccaga aataagaagt 360  
tacatttcca gattctat 378

<210> 11077  
<211> 345  
<212> DNA  
<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3059-033-Q1-K1-A8

<400> 11077

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ccccgcgaat ccaatttcag ctctngccgc cgctgccgtc agcaaggcag gggagcgagc 120  
aaggggatgc cgtngetggc cacngtngc tgcgcnntcg cggaccgcg cgacnntgt 180  
tcgcgccgn ctccttcgc aagaaaggg gctacatnnc ccgctcaacc aacctaact 240  
nnccgcacct accaagaatc ggcgaaactac gtncgcagct caaagggta accggcnngc 300  
cgtccccaca agggggaatn ngccgcacan nagttctaaa ccacg 345

<210> 11078  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A9

<400> 11078

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cctccttgcg cttcttgccc ttttagtgag cgcaacaaat gcgttcatta ttccacagt 120  
ctcacttgct cctagtgcc ttattccaca gttcctocca ccagttactt caatgggctt 180  
cgaacatcca gcggtgcaag cctacaggct acaactagcg cttgcccga gcgccttaca 240  
acaaccaatt gccaattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc 300  
aacgcaacaa caacaacaac agtttctgcc atcactgagc cacctagccg tgggtgaacc 360  
tgtcacctac ttgcaacagc agctgcttgc atccaacca cttgctctgg cg 412

<210> 11079  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F8

<400> 11079

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aacaagcaac ttacctttat caccctgtt ctttcaacaa tcgccagccc tatctttggt 120  
gcagtcattg gtacaaacca tcagggcaca acagctgcag caactcgtgc taccagtgat 180  
cagccaagta gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt 240  
caaccaactg tctacactga accctgctgc ttatttgcag caacaacaac tactaccatt 300  
cagccagcta gctactgcct actctcagca gcaacaattt cttccattta accaattcgc 360  
cgactgaac cctctgctt atttccagca gcaaatacta ctacca 406

<210> 11080  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F9

<400> 11080

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gtcaacatgc aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt 120  
ggcgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctaccagt 180  
gatcagccaa gtatctctgg caaacctttc tccctactct cagcaacaac aatttcttcc 240  
attcaaccaa ctgtctacac tgaacctgct tgcttatttg catcaacaac aactactacc 300  
attcagccag ctagctactg cctactctca gcaacaacaa tttcttccat ttaaccaatt 360  
cgccgcactg aaccctatt cttatttcca gcatc 395

<210> 11081  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G10

<400> 11081

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caaactgat ttgcgtaaa tggactcatc atgtgaccac tctattgttc ttgtatttg 180  
gtatttggtc attgtgggaa ggcttcaagg aagatggaga ttcagaagaa ttggctgaag 240

ttgaagcaga gctggatgat gtctttaaga gtaataaagg cgaatctaaa aataaaacta 300  
aggcaaacga tgatacgaag aaacagcaaa gaccatttct catgcaattc ttctcaccaa 360  
ttttcataaa ggcattttct attacatt 388

<210> 11082

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G12

<400> 11082

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caccaagccg aatcccaagc ccaaggccgc cccgaagaag cccaagaccg gcgctaagaa 180  
gccaagggcc gctgccaaga ccaaagctaa gacccccgcc aaggcgaagc ccgccacaaa 240  
gccaagccc gccggaagc cgaaagccgt agtgaagccg aagacacccg ccaagcccaa 300  
ggccaagcca gctgccaagg cgaagcccaa gaccgccggc gctaagccga atccacttgc 360  
taagaaagcc g 371

<210> 11083

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-G2

<400> 11083

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aatgctcaca agctcctata gttcccttc ttcccccgta cctctcacca gtgttgtctt 180  
cagtatgtga aaaccaatt cttcaaccct acaggatcca acatgcaatt gcatcaggca 240  
tcttaccttt atcaccttg ttctccaac aatcatcagc cctattacag cagttacctt 300  
tggtgcantt attggcacat aacatcaggg cacaacaact cgtgctagca aaccttgctg 360  
cctactctca gcaacaa 377

<210> 11084  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-G3  
  
 <400> 11084  
  
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 cactgacagc cgcggaagat caatactcaa ctatacaatc ctacatgggt caagaggcca 120  
 tccaagcttg catcttacgt tcattaacta aaatcctaca tcaaccatat actatattgc 180  
 aacatccatt cttaatgcat ctgtataatc aacgaatttc ataacaacaa ctactacatc 240  
 aaattcatat caacaatcaa tcaagtagtt tcagcgaatc tttgtgctta cttt 294

<210> 11085  
 <211> 199  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-G4  
  
 <400> 11085  
  
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 ttggateacc tcatgaattg ggacatcaag tggcccttat ccgtcaagtc tctaactaag 120  
 ttttcaccag tatggggaaa actattgcgt acatgatcgg aacgatgact gagattctca 180  
 gggcagctct agcggctta 199

<210> 11086  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-G7  
  
 <400> 11086  
  
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 gcgccaacaa gcaatcgcat catgcaacat acctttatca cccttggttc aacaatcgcc 120  
 agccctatct ttggtgcagt cattgggttca aaccatcagg gcacagcagc tgcagcaact 180

cgtgctacct gtgatcaacc aagtagctct ggcaaacctt tctgcctact ctcagcatca 240  
 acaattttctt ccattcaacc aactgtctac attgaaccgt gctgcttatt tgcagcaaca 300  
 actattacca ttcagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 360  
 taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac tactaccatt 420  
 ta 422

<210> 11087  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G9

<400> 11087

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 gcgacccata ttccagggca cttgccacca gtcattgccat tgggtaccat gaacccatgc 180  
 atgcagtact gcatgatgca acaggggctt gccagcttga tggcgtgtcc gtccctgatg 240  
 ctgcagcaac tgttggcctt accgcttcag acgatgccag tgatgatgcc acagatgatg 300  
 acgcctaaca tgatgtcacc attgatgatg ccgagcatga tgtcaccaat ggtcttgccg 360  
 agcatgatgt cgcaaatac gatgccacaa tgt 393

<210> 11088  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-H10

<400> 11088

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 atgaacaaga gggccggcga gctgacgcct gatgagctgg agcgctgat gacggctgtg 180  
 gccaaccta ggcaattcaa ggtgccggac tggttcctca acaggaagaa ggattacaag 240

gacggcaggt tctcgcaggt cgtctccaac gcccttgata tgaagctcag ggacgacctt 300  
gagaggctca agaagatcag gaaccaccgt ggtctgcgtc actactgggg cctncgcgtc 360  
cgtggccagc acaccaagac tactggca 388

<210> 11089

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H11

<400> 11089

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caaggatttg gacggggcca tgaagacatc gactgcggcg tggaagggtg ccgtgggcca 120  
ccataccatg aggagtgtca gtgatcatgg tgacaccaag gagctactgc agctactgct 180  
tccagtccta caggccaacg gcgtcgattt ctacatcaac gggcatgacc actgcctgga 240  
acacatcagc agcagagaca gcccaatcca gtacttcaca agcggatgcg gttccaaagc 300  
atggagagga gtgcagaacc ccaccgaaga tgacctcaag ttcttctacg actggcaagg 360  
cttcatgtgc atacagctag 380

<210> 11090

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H12

<400> 11090

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ggaaaccgac cgccgacgcc gagcaccctc ggttcctggc tttcccggcg cccaatctag 120  
acagctcttt ctggttcgtc tgtatccatg gccgcgcct cgagcaagac catcgctgtc 180  
ctcctgcgcg cgctgtcct cgcgtgtgtc gcgtccgcgg tggccagcag gaagctggag 240  
gaggaggacg ctttcttggg aagcctttcg ccggcgctg ccccgccga gggcggagcc 300  
gcggggctcg ctagcggcac gccgggggcy tgggcccgtc ccgctctggt ctctctcatc 360  
gccttcctcg cgaactgagc gggtcctg 388

<210> 11091  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-H2  
  
 <400> 11091  
  
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 attgaacaag cccacgttga gcaatggatg gatttttgccg caacagaagt tgatcctggt 120  
 gttgcatggt acttgtatcc aaggcttggg tacctccctt atgttagcac aactgaggaa 180  
 acagctatctt cttcattgaa gaggtcgctt ggtgctctga acacacacct tgcttcaaac 240  
 acataccttg ttgggcatgc tgttactcta gctgacattg taatgacatg caa 293

<210> 11092  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D9  
  
 <400> 11092  
  
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 caagtcagtg gttgaggaag agctgactgt ggcaaagtga agcaagatct caccggtgaa 120  
 gtccaagctt ccctacgagg ctgatgaaga ggaggaagtc gacgagtggc ccgatgacga 180  
 tgacgacccc accgatgagg ctggccaggc ggcggtgac aggactttgc tagggcgagg 240  
 ggaggaggac gtatcgttca gtgatctgga ggacgacgag gacgatgata ggaggtagaa 300  
 ggggatgatg ggcagtagcc aagttggcta ggggaagctc gtactatggt cccggcgcaa 360  
 ccacatgctg gcttcattgg agtaaggccg ag 392

<210> 11093  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-032-Q1-K1-E10  
  
 <400> 11093

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ctgcagcaga cgctcaactt cagcaccaac cactgcgcgc gctacctcat gggcaccaag 120  
cgctccatcc ccaacgccgt cgccgcctac gtcgacgtcc ggcacgtcgc gcgcgcgcac 180  
gtgctcgctt acgagcgccc cgagaccagg ggccgggtacc tctgcatcgg caccgtgctg 240  
caccgcgcgc acctcgctga catgctcagg gacctcttcc cgcagtaccc cgtcacggcc 300  
aagtgcgagg aggacggcaa gccaatggcg aagccgttca agttctccaa ccagaggctc 360  
anggacctgg ggctggagtt cac 383

<210> 11094  
<211> 391  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E12  
<400> 11094

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agcttgagcg tgccgctgcc gccagcagca gcctgtacga gccagctctg atgcagcagc 120  
agcagcagct gttggcagct cagggctctca accccatggc catgatgatg gccagaaca 180  
tgccggccat ggggtggactc taccagtacc agctgccag ctaccgcacc acctcctgtg 240  
gcgtctccgc tgccattccg ccctactact gattcatgat atttgggaaa tctcctctat 300  
ccatccctct ctatctatat ctgtaataat gcagtaagac gacacacatt atcatgtgtg 360  
gtagaccaa taatatatgc atgataataa t 391

<210> 11095  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E4  
<400> 11095

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ggaggtatag gtggtggcgc cgggtgggctc cactcaacg gcgccttctt gttcggcaat 120  
ccgatggccg cggcccagcc catgagcttc taccaccaga tgggcacggg gactgcttgc 180



gctggcggct tcgatgtttc tgcgccggag agtaggccgt cctcgatggt gtcgcagaag 240  
gacgaccagg ctaatggcgc tgagatctcg tcgatgatgt ccgtggccgg ccagggcct 300  
gcgaccacca ccaccataga gatggatggc gtgtggaagt actgaaaacg tggagggtgg 360  
agggcaaaga catgaattcg cataaattaa atatgcatgt aatatctata tctgc 415

<210> 11096  
<211> 243  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E7

<400> 11096

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ttcttacttt tcggcttggg tctttttttg gttttatata tccatcctat acatatatat 120  
ctaaattcta cattacaatg ttccaaaaaa aatattaaaa ctttcaaatt ttaataaaaat 180  
ataattaaca aataataaaa taattataaa aaatttttaa aaaatattaa actaaaaata 240  
ata 243

<210> 11097  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E8

<400> 11097

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tttcgtcatg agtccaacc tgacatatat atttaaactc taattccaat gtcccaaaca 120  
acaaaacaaa catattaaac aaaaatacaa actaaaacac taacattaat aaaaaaaca 180  
ataaaacaac aaaaaaatac aatattaaaa ccaaaaaatt aaacctataa aaaccactaa 240  
caatccacct atcataatac ctctatcacc ctcaatcctg caacaaacat aacatcttat 300  
aaataaacta cctaacttta atttacatcc cctctttatt aaac 345

<210> 11098  
<211> 392

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-E9

<400> 11098

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 ctgttctcat gttctgtagc atggtgattt tttgctagat gtcattgtttc cttttaggaa 180  
 gatgagatga gatattttga tgtgccctcg tttacaatta ccatgttata gttgctttac 240  
 atttaaaaaa aaaggaactt actccatcag ccatttggtt aaacagcttg tttctgtctg 300  
 agataggaag catgagactt aaaaaatcta ctgaaatcat gttccagggt ttgattgcaa 360  
 ctgcctggat attggctcta atcctattag tg 392

<210> 11099  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F1

<400> 11099

caagaagtgg acaattcatg gcatcagagg gatggccttt gaagagggttg gctgtgggat 60  
 ctctttctgg tcatgagctc caacctgtac atatatatgt aaattctaga ttccaatgtc 120  
 CCAaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa agggggggccc tttttaaagg ccccatcttt actaccctg 300  
 gctggcaaat caaaactttt tttatagggc ccccaaatta cattcattgg cccgcttttt 360  
 aaaaatgtca aaatgggaaa aaccttgggg tacccaactt aaatgccttg g 411

<210> 11100  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F10

<400> 11100

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ccgtagcggc gacggcggca ccggtggttg gtgcggaggc ggaggccagg gccagggcgc 180  
gcgccgagag gcggagccgg gccggagagt ctggggcgctg gaagcacgcg gtggccgctg 240  
gcacggccga tgctacgagg aagcggagtc tcggggcagg ggagctgctg gtggcgcgga 300  
agcacggtgc ggcgtcgggt gccggccgca tgaggagat ggaggatgcc gtgtccgtgc 360  
gcgacgcgtt ctgcgcggag ggac 385

<210> 11101  
<211> 327  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-F11  
<400> 11101

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agtgcacaaa cctgaactac ccattccgca cgggtgtgtaa caggaaagga tgctcgtaca 120  
gcaagccagc cccggcgaac aactgaacct aaccttcgcg catcgctcag ctattgttgt 180  
acccgtagat tgtatcctag tcgtgtgcaa tctttgaact gcacaaagat gtttttgtgc 240  
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atgaaaacta gggaagagca ttatatc 327

<210> 11102  
<211> 388  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-F12  
<400> 11102

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atgctcgcaa gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtctt 180  
ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat 240

cttaccttta tcacccttgt tcctccaaca atcatcagcc ctattacaac agttaccttt 300  
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 ccttgctgcc tactctcagc aacagcag 388

<210> 11103  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tctcctccag tgaagccgac agagccagaa ccagaaatcc tcacaaagaa aattgatgaa 180  
 gtgaccacac cttcagtact tccctcagat tatattttca caaacagcc agaacaagtg 240  
 cggacaatct ctccttctga gagtggggca aatattgact tggacgacgt tttatctgct 300  
 gcgcagacag ctgctgaatc agctgagcga gctgcatcag cagcccgtgc tgctgcanac 360  
 cttgcacaac tgcgcatctc agacctgaag aagaatccaa ggtttatagc aattaccgtg 420  
 atagcgtcca 430

<210> 11104  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-B9  
 <400> 11104

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 gtccttgggt ctttctgcaa gtgctgtac cgcgaccatt ttcccgaat gtcacaagc 120  
 tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180  
 cccaattctt caaccctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240  
 acccttgctc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300

ggcacaaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc ttgctgccta 360  
ctctcagcaa cagcagtttc ttccattcaa ccaact 396

<210> 11105  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C1

<400> 11105

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cttaactact tataataaga acacattgta ttacatata tttctacttc atcttcacca 120  
atatcagtaa ccacctatat catactcact atctatagca cgcaatacta cttacactcc 180  
ctttcaacct cataattata atataccttt acataaattc aat 223

<210> 11106  
<211> 192  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C10

<400> 11106

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aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 120  
taaaaagaat ccaaactcaa aaaaacgaac aaataactaa ataatatatg aaatcaaaat 180  
acataaaaact aa 192

<210> 11107  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C11

<400> 11107

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gggcagacac ccgctgatat ggctgaccaa gacaccgaag ttcgaaccct gttgactgcc 180  
aagcaaattg aggcaagcac acacatgagt gataattaag cggcattgga atccttagtt 240  
gcaactggta atgttgagaa atagccgtaa catcttatct gccatccaaa cttcatttga 300  
actgaagtaa tactgtaatc agactagtat ggaggggtta gcttagctac atgatcatgc 360  
tccttttcct tatcgctgca ttatactaaa gatgaa 396

<210> 11108  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C2

<400> 11108

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atgtttgtgg cttcccagaa ataagaaagt acatttctag attctg 166

<210> 11109  
<211> 71  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C3

<400> 11109

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ccctactata a 71

<210> 11110  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C4

<400> 11110

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ctgaacactg atcttaagag agaacttgac catttggcta actttcttca agctgctgtt 180  
gactacaaga agaagattgg attcaacgga aactgttga tagagcctaa accacaggaa 240  
cctacaaaac accagtatga ctgggatgtt gcaactacgt ttgcttttct acagaagtat 300  
ggtcttaccg gagagttaa gattaatgtt gagtgcaacc atgctactct atctggacat 360  
agctgccatc atgaactgga gactgcacgc attaatgggc tgcttgggaa cattgatgca 420  
tacactgggtg 430

<210> 11111  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-032-Q1-K1-C8  
<400> 11111

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ccaacgatca catccattct aggtatcaat ttcgccaaag ttttgctcat cgtaaggaga 120  
aaattggcca cacaaccata gacttgggtg ttgccttaga aaacctggaa acgcaacagg 180  
agggagacct ggcatgtgcc aaaccaatgg aacggttgca ggacgttcgg ggtcatattg 240  
tttgcttccc tttggagtgc atgtgccaaag aggacttgag acctttcttc agtgagagcg 300  
agtattatac atctccaaa gttttccatt agggcttgtt cggttatttc aatttcatgt 360  
ggattgggtg gtattggagt gaattaagat gaattttgac ttgctatggg atntaaactg 420  
actc 424

<210> 11112  
<211> 260  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-C9  
<400> 11112

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aatggacag tatcatcagc agaagtatcc aatggggcac ggtagtgtac atcttcaaac 120  
tgaactttct tcataaacag agattaatga ctatatagct ttgctatacc agtcatctca 180

tctttatcat ggccctggaa gagaaattca aatcctagat acctgataat gaacatgata 240  
 tgattgactc acttaaaatt 260

<210> 11113  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D1

<400> 11113

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 gacggtttcc aagtcgggga agaggacctc ctactgggag ggccaagcca cggccccgga 120  
 cgctgcgggc gcttctggag ccgaagcagc tcccggcacc gcggcagaag cgctcctgc 180  
 tgctgctccg gcggcgccag agatcacccc agccaaagct gacgcctgat cgtcacgcta 240  
 ttattcactc acatgtgatg ctgcggctgc gactcctaaa ccttaaattct agaaatagct 300  
 ggggattggg ttgcatgtgc atcgtgttct tgccgggtcta gcaagtgact ataagaataa 360  
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 gcagga 426

<210> 11114  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D10

<400> 11114

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 agcttcagaa cccaaatgat ccttccttct tcatgtgtga ccctcaattg aagaagggtg 120  
 ttggggagga caagctcaag ttgcaatgc tgtcacagag gatattctcag catctgtctg 180  
 ccccgacacc catcaatttg gagcacaaga ttaagctgtc gggaatgaa tcgcatagca 240  
 gtgcttgcta tgatgtgctg gtggatgttc cctatccgct gcagaaagag atgatggcat 300  
 tccttgccaa cacagagaag cacatggaca ttgaggcctg cgactaggtg atatctgctt 360  
 cgatcatgaa gatccatgag ca 382



<210> 11115  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D11  
  
 <400> 11115  
  
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 tggaaaatgt tggggttgct ctgttgctcg tagtttacat gcgcatgtcg gtatgtgtag 120  
 ctaaagctgg tggatctcag ttctcagatc ggactcgaga cggggaaaac cattgcccag 180  
 ttggctgggt ctctgaagtt ttgtttgggtg taaagaaatg gtgggccatc atctactcaa 240  
 atttttttct c 251

<210> 11116  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D12  
  
 <400> 11116  
  
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 tccatgactc cgacagttgg gtgatacata ccaaagcaa taaacaaacc ctacttttta 120  
 ttttatgttt ccagttaata ataaaccagg ccttagcttc ttggttggtc ttccttggtt 180  
 ggtgttagct tctaagctac tagtacacca ttaaaaaaag gaggacctca tgtatggcta 240  
 ccgtgaaaaa tgtgatcttg atggaataat atatcataaa taagcaatta atgatgataa 300  
 aaaaaaaaaa aaaaaataaa tattatataa tgtcacctaa 340

<210> 11117  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-D4  
  
 <400> 11117  
  
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cgcccaaccta ttctccctgc cggcggcagc cttaacccta atctcatcgc ctctcttcc 120  
 ttctccagtt cctcgaaggc ccatcagaca acagcccctc tttcttctca gccatgtcgg 180  
 aggaacgaagc gaacgctgct gctgcgccgg cagagggaaa gaactggctg ctgaagggga 240  
 agcacgacaa gccaagccg tgggacgagg accccaacat cgaccgctgg aagatcgaca 300  
 agttcgaccc tgcttgaac gagggcggca tgctcgaagt cagctccttc tccaccctct 360  
 ttccccagta ccgagag 377

<210> 11118  
 <211> 206  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D6

<400> 11118  
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 caagttctgt tgctgtggc ttgatctgtg gtgattgtat cttcactggt tattttttca 120  
 ttctgttaaa atttattttt tttttttttt ctttattttt actattaatc tattttattac 180  
 tattaatatt tatttatctt atttta 206

<210> 11119  
 <211> 222  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D7

<400> 11119  
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 aatcatatca actttaagac tagcttaact attctcaatt tcattataaa ctacatatca 120  
 atacataact acctctccta cctctacaat cataataaaa tttccaacat atatacaatc 180  
 ctcaatctta ctctctcata catcctacta tattaacatt ct 222

<210> 11120  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A2

<400> 11120

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accgttagac tgtagtgtga catcctaaat attagctcca ctgtcaactc caaccctgat 120  
tctcacactc acaatttgat tgTTggaatt ctaattgtgc tttagggttc tatgtgaaga 180  
tacaaaaaaa tattgcattc ctattctggT cccgtattga aattgccagt ggtccctctg 240  
aattttgatc caattgttat aaatttcaga tgaactgaat aaaactacta cttgtaggca 300  
aacaataaaa ttgtacgggc atttggagag aagagagtag aggataatTT gaagaaccac 360  
gtggacTTTT gcaggatgc 379

<210> 11121

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A3

<400> 11121

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actgacctgc ttgTctgtgg tattgatgtt cagcaggTgt ccctggTcat caactatgat 120  
cttcccaccc agccagagaa ctacctgcat cgtattggTc gtagtggtcg ttttggtagg 180  
aagggtgttg ccatcaactt tgtgaccgc gacgacgaac gtatgctgtt tgacattcag 240  
aagttctaca acgtgttgat tgaggagctg cctgccaatg ttgctgacct tctgggatca 300  
atttgagaaa aaacataaca aaaaaaggTg gtgagggaac ccggtTaaggg attggttttTg 360  
tcg 363

<210> 11122

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A4

<400> 11122

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tgggcttggg cgcacgccag gcataaaggg aaggctctga acacgttata ttcaaaaggg 120  
 aagacaacat cttctaaaag cctggtgcga caagcccacg gtagttgcca attgcgtaca 180  
 tgcatttgaa cagatctggg ctctaaaaac tgctaacttg gtagcagaaa gattgatgca 240  
 ttgcatatca taccactgga tcaaagagtt tagtgaatgg ccacaatgca tgttcttgag 300  
 ttggcatcaa agttccttcc atataataat aacaaaatat ttgacataat gaatctgttg 360  
 gaggatagac ttcaacatgc aaatggaacc gttgttttgg caacaatt 408

<210> 11123  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A7

<400> 11123

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 agtctggaag gccagatatg gcggcacatt taggtagtca gcattgtcga ggaaccctac 180  
 taatgtctaa tacttcctct gttttttatt tgtcatgttt tagtaaaaaa taaattagcg 240  
 ggcgataaat attcgagaac ggatgtagta ttttttatgt acagggttcgg ctgcagtttc 300  
 ttgtatcact tttgctgtgt tgtgttgac atacggtgtt ttgcttccaa tgaattagga 360  
 aagggtttag aggcttagag ccaccgtgtt actgattagc gttatgggct gtgtcaggtg 420  
 cattatgc 428

<210> 11124  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A8

<400> 11124

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 acattggcca atttgacaat gaaattgata ttcttgggcc ttaaaactta ccttgcccta 120  
 agcggattaa catataaccc caaaactaga cctttgtgtg tccccagacc caaactgtga 180

tatatgtgcc ctctctgagg ctcttgagga aaccttggtg tgctacagtg cataactacta 240  
tctgtatagt ctgctgatta ttcactaacc aggtcattgc ccaacttgaa ctgtggaagg 300  
agaagagctc tggcaagtat gagaagaagg tgtatgtgct ccccaagcac cttgatgaga 360  
aggttgctgc tctccacttg ggcaagcttg gtgccaagct gaccaagct 409

<210> 11125

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-A9

<400> 11125

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tttgcctctc ttgcctcct tgctctttca gcaaacgttg ctaccgcgac tattattcca 120  
caatgctcac aacaatacct ctctccggtg acagccgcga gatttgaata cccaactata 180  
caatcctaca ggctacaaga ggccatcgca gcaagcatct tacggtcggt agcattgact 240  
gtccaacaac catatgccct attgcaacaa ccataccttag tgaatctata tctccaaaga 300  
atcgtagcac aacaactaca acaacaattg cttccaacaa tcaaacaagt agttgcagcg 360  
aaccttgatg cttacctnca gcaacaacaa tttc 394

<210> 11126

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B1

<400> 11126

ggtgtaattg cgcaaaagat ccttcaacat gcagattgtg ctggagctgt gttctagtct 60  
gtcatgaaga gtgcattact ggctgcacaa tctagtaatg atactctttt gaagacaact 120  
gctgacgcac ttggcaagtg gaaggatctt ttgcgcaatt acaccaagac agttgatgaa 180  
gagatggaga tactttttaa gtttgaggaa atgtgtcaag agaccacaaa agatttttct 240  
ccgctgtttc caaagatctt gccatacctc tatgatacgg aggtagtaag tgaagatgca 300

atTTTgagat gggcggaaga gaaagaacat gctgatgagt ctgataaagt ctttgTtaaa 360  
 cagtcagaag cttttattca gtggctcaag gaagctgaag aggaagatga cgaagaag 418

<210> 11127

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B10

<400> 11127

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 atacgtgatg ttcccagcta atccaaaggt ccctccttcg gatgcttgct gtggtgtcat 120  
 caagaaggca aacgtttctt gcttggtgctc caaggtcacc aaagaaactg agaagggttg 180  
 gtgcatggag aaggttggtg atgttgctga gcagtgtgag aggccatttg agcatggctt 240  
 ccagtgcgga agctacaagg ttccagcaaa ctgatgatat cacaagaggg aagcgcttga 300  
 cgtagtcttt agatttcaat tgttgagcc gatcaacctt cttagggttg tataatatga 360  
 agtcaatgtt gagactaatg tgaggtggga ga 392

<210> 11128

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B11

<400> 11128

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 ccatectcaa ctccgccacg gggctgggag gcggcggcgc cacggccggc gcggcgggtg 120  
 agaaggcggc ggcggcagct gagaagacg tcttcgagct gcggctggag gcctacgatg 180  
 ctgcgagcaa gatcaaggtg atcaaggaga tccggtcatt cactgacctg gggctgaagg 240  
 agccaagga gctggcggag aaggcgctg cggcgatcaa gggaggccta tccaaggagg 300  
 aggctcaggc gattgtcgag cgaatgaagg cagtcggcgc caaggctatt attgactgat 360  
 cagaacaagc cttttcagtg gtgaagtcct gcaaat 396

<210> 11129

<211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-B12  
  
 <400> 11129  
  
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 gacaagggtga gaaagatggt gtacagaaac agggatgaat tcaggcacga cgtagcacag 120  
 atacaactca atgcacacat atacaacgac actcgctatc ctcacatccc tccgcttgct 180  
 gacgagctca tggagggtctg cgaccatctg ctttacgaaa acgcagatct gctcaccgag 240  
 gcggaagatg ctatcgagta gcaatataaa aagctagatt tagcatttgg atcttgctat 300  
 atcctaacat agatgatgta tctatcttct gatctgtaag aggggaaaag gttgtacatt 360  
 ttttgggcct agcagcaatc tacatgtgat 390

<210> 11130  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-B5  
  
 <400> 11130  
  
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 tcgcgcttct gttggctggt gccattctgt cctcgctgtc tccatgctac gaagccggcg 120  
 gctgcatcgg gaaacccaag aagtcaccgt cgtcgccgag aaggccatac ctctcgctct 180  
 attccgagga ccaccagaac tgccgcttga tctgtagctc gaagggtttc aaggacgggtg 240  
 gctggtgtga cgaaagcgtc gagcaciaag tgtgctgctg ctccattag aaatataata 300  
 tcgtatgtta tgttgatgca tatatatgca tcatccatct acctgtgtgg tgcaaaattc 360  
 tgaataaaat ctacctgtgt ggtgcaaaa 389

<210> 11131  
 <211> 174  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-032-Q1-K1-B6

<400> 11131

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cagtccttat tcgcctcttg gttttgagat ctatatctgg actagcagtg ctttcttctg 120  
tcacctatctt gtgttaagaa gacgtagttt ttaaattccat tgctccttcc tggt 174

<210> 11132

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B7

<400> 11132

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aagaaggcct tgaactattg aaggcagcca tagaaaaggc tggctacact ggaaagggtg 120  
tcattggaat ggatgttgct gcttctgagt tcttcggtga gaaagacaag acttatgata 180  
ttaatttcaa ggaggagaac aacgatggct caaacaaaat ttcaggcgac agcctgaaag 240  
acctgtacaa gtcctttggt tctgagtacc ctatcgagtc gatcgaagat ccatttgata 300  
aggatgactg gagcacttat gccaaactca ctgatgagat tggacagaaa gtgcagattg 360  
taggagatga tcttctcggt accaacccca ccagggtcgc caaggccatc aatgagaaga 420  
cct 423

<210> 11133

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A12

<400> 11133

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ttagctgacg acacaaaaac agctaaaaaa agaaaagctc ttactcctct acaaggacca 180  
acgtgctcgc ccgcgctgcc atcaccaagc cagggtggagg acatcaacga aacttctgaa 240  
aagcattatg cagccctaaa taacaagata tcagcactgg aaagcagaag agaaccagga 300



actatcacag atgcatcaga ttaattctga gttgggctta tgtcatgggtt acatctgccc 360  
atgtgtccct gaatgctgca tgccatataa actgca 396

<210> 11134  
<211> 181  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-031-Q1-K1-G2  
  
<400> 11134

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gcagctgcca acaccagcgc cgacacctcc tgcattgccg ggttggccat cccatacaac 180  
c 181

<210> 11135  
<211> 418  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-031-Q1-K1-G4  
  
<400> 11135

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aacaatggca ggcaaaagat tttgcctcct tatgtctcctt ggtctttctg caagtgtctg 120  
tacggcgacc attttccgc aatgctcgca agctcctata gcttcccttc tcccccgta 180  
cctctcacca gcggtgtctt cggtatgtga aaacccaatt cttcaaccct acaggatcca 240  
acaggcaatc gcagctggca tcttaccttt atcacccttg ttcctccaac aatcatcaac 300  
cctattacaa cagttacctt tggtgcatth attggcacia aacatcaagg cacaacaact 360  
acaacaactt gtgctaacia accttggctg ctactctcag caacagcagt ttctttca 418

<210> 11136  
<211> 347  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-031-Q1-K1-G5

<400> 11136

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aaggataatg ctgaaggaca agaggttgat gcatcagctg acgaaacgaa aaagagcaac 180

catgtcacga ggaagcttga gaagcgcaag gagggactta cccttgaccc acacattgag 240

gagcaatttg gcagtggacg gttgctggca tgcatttctt cccgccctgt acaatgtggc 300

cgaactgatg ggtacatact tgaaggtaaa gagcttgagt tctacat 347

<210> 11137

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G6

<400> 11137

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aggggcgccg gccctacact atccggacgc acttgatggc cggcagcatc agcgactact 120

ccatggccag tgtgttccaa tttatcatg 149

<210> 11138

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G7

<400> 11138

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aatgcacgaa gggtttcaac agatagggcg caaggactac gatgtactct atatggacaa 120

gctttacaga tagcactgca agaataagtc gcacaaacac aactacacac accacattaa 180

<210> 11139

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G8

<400> 11139

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ccacaagatt ttgtcaacgt attttttgta tcaaaagaat cacattaacg agagagaacc 180

ctgtacttag caataaaaga ttatatcaac atatcttgct catgttaagg ggccgaattt 240

tttgtatttt aatccttttt tcgaaacaat ttcacgttta aaaaaaaca aa 292

<210> 11140

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-031-Q1-K1-G9

<400> 11140

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taatgaacgc atttgttact tcaatgggct tcgaacacct agctgtgcaa gccaacatgc 120

aacaacaagc gcttgcgggc agcggttttac aacaaccaat tgcccaattg caacaacaat 180

ccttgccaca tctaacaata caagccatca caacgcaaca gcaacaacag ttcctaccag 240

cactgagcca cctagccatg gtgaaccctg ccgtctactt gcaagagcag ctgcttgcat 300

ccaaccact tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt 360

ttctgccaac gctcagtcaa ctagccatgg tgaaccctgc cgnctacgta caacaacaac 420

aactg 425

<210> 11141

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H11

<400> 11141

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tctggcggcg cttgagaagg actacgagga ggtcgggtgct gagtttgacg agggtagga 180

cggcgacgag ggtgacgagt actagacgct ctactggcgc ggcgtcgtcg ggcttgtgtg 240  
ccactgctat cctgtgatct gccctgagtg gctcctatcg tgttatgttt ctgtcggttc 300  
ttatctatct gtcgttgtgt ggttttacaac ttacgttgta agactttatt cccccgcttt 360  
gctactgggt tattaagttt ggcgttattg gtttctt 397

<210> 11142  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H12

<400> 11142

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ggacttctgt gtcgagccag ctgatgagag gaagcctttg cgtgctctct cggatgatgg 120  
ccttatcagg actacaacag ggtaccatgt ctttggtgcc ctcaaggag cattggatgg 180  
aggcctggat attgctcaca gctagaagag gtacgctgga ttcaagaagg acgacaagca 240  
cctgtatgct gatacccacc gcacgtacat gtatggaggc catgatgctg actacatgaa 300  
gaaccttgct gaagaggagc cagataagta ccacagccac ttacatgcgt acattaagaa 360  
gggagttgag gctgatgaaa tagaagcgt gtacatgaag gttcatgc 408

<210> 11143  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H3

<400> 11143

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ctgtttcggg gtgagcggat cgatatggcc gcgtcgatgt tgataccgct gcttcgtcgg 120  
cggctcgcgc tgggccacgg acgaccactc cctacacaac gccttcagca cctactgcga 180  
ggtcctcgag tccaaaatca tctcgcgtcg gcagacgcgt aagtacctcg gcttcgcgtt 240  
cgtcacct 248

<210> 11144  
 <211> 156  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H6  
  
 <400> 11144  
  
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 tgcaaccgtg ccttgtccgc atggaatcgc ctggcgcca tgaggccacg tacaactcca 120  
 tcatgaagtg tgatgttgat atcaggaacg atttgt 156

<210> 11145  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H8  
  
 <400> 11145  
  
 aaacacacca agcgaagcta cctatcaacg acttaacaac aatggctacg aagagattag 60  
 ccctccttgc gcttcttgcc ctttttgtga gcgcaacaaa tgcgttcatt attccacaat 120  
 gctcacttgc tcctagtgc attataccac agttcctccg accagttact tcaatgggct 180  
 tcgaacacct agctgtgcaa gcctacaggc tacaacaagc gcttgccggc agcgtcttac 240  
 aacaaccaat taaccaattg caacaacaat ccttggcaca tctaaccata caaaccatcg 300  
 caacacacca gcaacaacag ttctaccag cactgagcca actagatgt 349

<210> 11146  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H9  
  
 <400> 11146  
  
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 ctgccgggct gccgcgggga ggtgcagagg ggattcgccg ccaccctcgt cacggaggcc 120  
 gagtgcaacc tggccaccat cagcggcgtc gccgaatgcc cctggattct cggcggcgga 180  
 acgatgccct ccaagtaact gcgaagagca tagtgcata ggaatgagct tgtagctagc 240

tcatatgtct gaataataag cacagcaaga agatgaatgc atttctcgga tcgctcatcc 300  
 ggaacaataa ttaaagggga tccggatttg ctcttgatgat actaataacg attcctgcta 360  
 tactcggaag cagctaggct cgtgcccacg caatgcatgc atagatctga cctaccataa 420  
 aaa 423

<210> 11147  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-G12  
 <400> 11147

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 aactgaacca aatcagcaga gcaagcatgc gttaactggc tcatttgaga aagtcctga 120  
 cattgagtct gttgggtctt ctgctgagaa atctgtcggc acaggtgatg acttgcttca 180  
 atctggtaaa ggtgcttgcc actcagaaat accagtcgat atcatagctc agctgcaact 240  
 tgacctacc tctggaacgg cagatcatcc ggcaatctcc aaaggggcag acaattttga 300  
 aggacaacat tatcatacaa cagatgaaag catcggagca ataccaagta catttgaacc 360  
 tgctgttggt gccaaagttg tatcagttga tgcactgct gaccttac 408

<210> 11148  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-A10  
 <400> 11148

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 tccaacacag cagtgcagaga aagcggatga gttcaaaaag ggtgtcgagg gtgcaaccaa 120  
 gtttctcctt agcaagctga aggacctcca attttttggt ggtgagtcca tgaaggatga 180  
 tgcgtctgtg gtattcgctt attacaagga tgggtgccact aatccgacat tcctctatct 240  
 ctctcatggc cttaaggaga tcaagtgcga ggcgtgcggc gaaattagtt acccatgttg 300  
 ggtactatct atgtactatt attatatcca aaactatagt tgcctgggct gaattgaact 360

caaaaggggtt tgtctgaga

379

<210> 11149

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A11

<400> 11149

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gatatagagg agagacgaga gcgggatggg gtacctgtgg aggggtgcggc tgtcttcatt 120  
tgctgccggc gcggcgacgg cttcggcggc ggggttcttc ctctctaca aggaccacgt 180  
gctcgcccgc gctgccatca ccagccaggt ggaggacatc aaggaaactt ctgaaaagca 240  
ttatgcagcc ctaaataaga ggatatcagc actggaaagc agaagagaac caggaactat 300  
caaagaggca tcagattaat tctgagttgg gcttatgtca tggttacatc tgcccatgtg 360  
tttttgattg ctgcaggcgg tataaactgc agcattt 397

<210> 11150

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E12

<400> 11150

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aattaccatt cagccagcta gttgctgcct acccccagca atttcttcca ttcaaccaac 120  
tagcagcatt gaactctgct gcttatttac agcagcaaca actactacca ttcagccagc 180  
tagctgatgt gagccctgct gccttcttga cacaacaaca gttgttgccg ttctacctgc 240  
acgctatgcc taacgctggc accctcttac aactgcaaca attgctgcca ttcaaccaac 300  
ttgctttgac aaactcaaca gtgttctacc aacaacccat cattggtggt gccctctttt 360  
agattgctta tgagttatag ttcaataatg aagttttttg gatgatgttt gtggc 415

<210> 11151

<211> 301

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-E2  
  
 <400> 11151  
  
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 aggagcacga cgcgatagtc aggtcaacgg gtggagcgcg caccctaaga actacggccc 120  
 tggctcccgc gtctgccggg tctgcgcgaa ccctcacggt ctgatcagga agtacgggct 180  
 catgtgctgc aggcagtgct tccgcagcaa cgccaaggac attggtttca tcaagtaccg 240  
 ttgaagaggc cactgtgctg ctgtggagaa ctttctacat caaagaaatg ggttcttcat 300  
 t 301

<210> 11152  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-E5  
  
 <400> 11152  
  
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 cgcattcggg tcacagggtc tccgtcgttt cccaacgcgc tttccccggc gccatggcca 120  
 ggctggcgct agegctccta ctgctgctgg ccgtggcggc atccgcgtgg gccggcgccg 180  
 gcgcgagcca cctcgatctg ggcttgggct ttctatgctc cggggaccgc cggcggaat 240  
 gccgaggcac gg 252

<210> 11153  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-E8  
  
 <400> 11153  
  
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 gaccattttg ccgcactgct cacaagctcc tatagcttcc cttcttcccc cgtacctctc 120  
 accagcgggtg tcttcggtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 180



aatcgagctt ggcatcttac ctttatcacc cttgttcctc caacaatcat cagccctatt 240  
acagcagcta cctttggtgc atttattggc aaaaaacatc acgtcacagc gactacaac 299

<210> 11154  
<211> 337  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-031-Q1-K1-E9

<400> 11154

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tctggagggtg ctgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc 120  
tttcttcccc catacctctc accagcgggtg tcttcagtat gtgaaaaccc aattcttcaa 180  
ccctacagga tccaacaggc aatcgagcta ggcatcttac ctttatcacc cttgttcctc 240  
caacaaccgt cagccctatt acagcagtta cctttggtgc atctgttggc aaaaaacatc 300  
aaggcacaac aactacaaca acttgcgcta agaaacc 337

<210> 11155  
<211> 83  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F1

<400> 11155

accatcttac aactacaaca attattaacc ttacacaac ttactctgac aaaccaaca 60  
acctctacc aacaacacat tat 83

<210> 11156  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F10

<400> 11156

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ttctgcaagt gttgctaccg caaccatttt ccacaaatgc tcacaagctc ctatagcttc 120  
 ccttcttccc ccatacctct caccagcggg gtcttcaatg tgtgaaaacc caattgttca 180  
 accctacagg atccaacagg caatcgcaac aggcatttta ccattatcac ccttggttcc 240  
 ccaacaaccg tcagccctat tacagcagtt acctttggtc catttggtgg cacaaaacat 300  
 cagggcacaa caactacaac aacttggtgt agcaaacctt gctgcatact ctcagcaaca 360  
 tcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt tgcaacaaca 420  
 atta 424

<210> 11157  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-F11  
 <400> 11157

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 gctggcgata tgcttgatcg tctcacgctt acttacaaca ggacacgccca agcatccatc 120  
 accacagagc ttactgagat tatactctggg gcatcagccc ttgaaggata ggccaacgac 180  
 agtgatgatg ccgtgcgctt ttgcatattg caaaaatgat gttctacatc tatgggtgaat 240  
 ggctgggtttt cataaatggg gatgatcaat atatgtatct tgcacatgat tagcaagtgc 300  
 acgtg 305

<210> 11158  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-F12  
 <400> 11158

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 gatgggagta gaggctgatg aaatacaatc gctgtacacg aaggaccatg ctgacatcac 120  
 gagccgatcc ttccattgat aagatcaacc gaagcagtca ccaattgagc gtaagaggta 180  
 caacccaag aagctgacat atgagcagat gaaggccagc ctaattgaaa ggctcaacca 240

actcaactgc tccggagggtg ctgatgacaa cgatgaggac gactagtaaa ggtaattgcc 300  
atcgaagtag tgctatctca atccagcgat cagcaattgt gtactgtctt atgcggggac 360  
ctgtagtact gcaataggca ttattgttta agtcttgcca agggaacaaa ac 412

<210> 11159  
<211> 285  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-F2  
<400> 11159

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ctggaggggt ggactcgctt tgccgtgcag gaatggaaga gcgagcttat gagatcatac 120  
aggggatgcc aatgagacct tccatttctg tctggggagc actacttggg gggtgcaaga 180  
tgcattggaa gacagagcta ggaaggattg ctgctgacaa gttgtttgaa cttgatcctc 240  
aagatttatg caatcatggt ttgctctcta acatgcttgc atctg 285

<210> 11160  
<211> 217  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-F7  
<400> 11160

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caccacaacc agtcggctcc cctacctcc caccacaacc acacattcaa catcttctgc 120  
cacaccaacc aaaactactg cctgaccact cttacaaca ccaccatact ctccccatc 180  
aaccacaaat actaccacca acactaatac aaataca 217

<210> 11161  
<211> 210  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-F8  
<400> 11161

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tagatctgta tgaagttgac ggccggatat ccttcttcac gcctgtataa gatgttgaaa 120  
ggatctgaat ggccgaacat caccctaacg accgccttcc tgtttcctgg gattgctatc 180  
agtattccct tcataccttaa tgctctaata 210

<210> 11162  
<211> 284  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-F9  
<400> 11162

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gatcgtggag cgtgctgcgc agctcgacat tgtggtcacg aacaagcttg ctaggctccg 120  
cagccaggag gacgagtagt ctgggttctt gtcttaacga cgaactggat gttgccattc 180  
ctttctgtag gaaactactt tgcttgtgtc ttgttagtac tgaaaaccag agtcactcct 240  
acctttttgc aatcagtagc tactaaaatg tggcagattc cact 284

<210> 11163  
<211> 288  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-G1  
<400> 11163

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tgcgaggtga tggcgatgga ccctgacgcg gtagegaagg ccttcgtgga gcattactac 120  
cgaacgttcg acaccaaccg cgcgggcgctg gttgggctgt accatgagac ctccatgctc 180  
accttcaagg gccagaagtt ccagggcccc tccgtcattg ccggcaagct cggatctctc 240  
cctttccagg cctgctagca tcataattct accgttcact gtcattcca 288

<210> 11164  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G10

<400> 11164

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acccaagaat cagcactacc ggaaggaaca agcttgatca gtaccaaatt ctcaagtatc 180  
ccctcaccac agaatcggcg atgaagaaga ttgaagataa caacactctg gtcttcattg 240  
tcgacctcaa ggcagacaag aagaagatca aggctgctgt caagaagatg tatgacattc 300  
aggccaagaa ggtcaacacc ctgatcagac ctgatggaaa gaagaaggct tacgtgaagc 360  
ttacgcctga ctatgatgct cttgatgtgg ccaacaaaat cggcatcatc t 411

<210> 11165

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-E1

<400> 11165

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ttaccaagat aggttccttc cttatgctcc ttgatattta tgcattgtatt gctaactcca 120  
caattcatcc cttaatgttc aaaaactcct atagcttccc ttcttacctt ataccttcca 180  
tcaa 184

<210> 11166

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G11

<400> 11166

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tgccgaagct gttgggttgc tcatgctcgc tatgtccacg ctgctttacc ggagtggaa 120  
acgtcaagac gcagtggaaa agctcaaagc aaccaacaa gttgccccctt ctgcagtttt 180  
tagagttgca gcgtgggaag cactaatggg attacacatg gaggcagggc aggagatgtc 240

atacttgatt tccccaaatg attcagttga tctgtcaatc aaatatgata gcaaatgggc 300  
 tgatcaggac catcttaaat ttcgggttaa tgctgtcaga ggacttgta cacttctgaa 360  
 tggagaaaca gaatcagctg cccagctggt cgatgggttg tgcagagact tttctagagg 420  
 cgaaa 425

<210> 11167  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-B2  
 <400> 11167

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 cattatatgt ctatgatctt catgcaagca aagtgcatt acgttgatgt gctcatacat 120  
 ctgatgtcaa tacagtagca tttgctgatg aaaccggcca tctcatatat tctggaagtg 180  
 acgacacttt atgcaaggtc tgggacaggc ggtgtttgtc cgcatgacag gctgccggag 240  
 ttttgactgg acatttgcac gggataaacac atattgacag tcgtggacat ggacgaagtc 300  
 tcatatccaa tggaaa 316

<210> 11168  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-B4  
 <400> 11168

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 aatgatcgat ttttttggat gatgggagcg ccattccaca aataagaaag tacatttcta 120  
 aaaaaaaaaa aaaaaaaca aaacaaaaaa aaaaaaaata aaaacaaaaa aaaatataat 180  
 acacaac 187

<210> 11169  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B5

<400> 11169

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aaaaaaaaaa agaaaagaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120  
aaaaataaaa aaaaaaacia aaaaaaacia cacaaaaaaa aaaaacataa aaaaaaaaaa 180  
aaaaaaccta aacaaataaa aaaaaacaat aat 213

<210> 11170

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B6

<400> 11170

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catgatcatg gtcataaca tgtctatcat gattgtactc taccaatacc atctgcccac 120  
ctaccgtacc aacccttgta gcatctcctc ttccatttct acctactact gattca 176

<210> 11171

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B7

<400> 11171

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tgatcgacca gaacagggca cttctggatg cccctgatat ggtcagggtc cagggtgaact 120  
tcaagcggct ctacttact gacatcaaga ttgacatcaa acgtgtcccc aagaagacag 180  
ccctgatcaa ggcatggac gaagctgatg tgaagaccaa gtgggagaac agctcatggg 240  
gcaagaagct gattg 255

<210> 11172

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B9

<400> 11172

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cttggtgtgc ctggcggaca atggcaggct gaaatatatt gaacgcattg cggagagatt 120  
tgttgatttg actatggaac ataaggggga gatgaagggt gtggtcagga cagttatttc 180  
actaccaag gaggaggaga aagaactcaa ggaaaccttg caggatatcc ttggggaaaa 240  
caaaactatt ttggttgaac agaagattga ctacagcatc atgggaggat tagtgattga 300  
attcgggcag aagggtgcttg atatctcaa 329

<210> 11173

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C1

<400> 11173

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gtctaccccg agcaactact tccattcaac caactggcag cattgaactc tgctgcttat 120  
ttacaacaac agcaactacc accattcagc cagctagctg atgtgagccc tgctgccttc 180  
ttgacacagc aacagttgtt gtccttctac tcgcacgctt ctctaacgc tagcaccctc 240  
ttacaactgc aacaattgct accattcaac caacttgctt tgacaaacc agcaggcgctc 300  
taccaacaac cca 313

<210> 11174

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C11

<400> 11174

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ctcaacacct tgatgaacat gttcagcggg cttggtgctg gtggtggcct aggtgttcca 120  
aatgtctcta atgcaccgcc agaagaactg tacgccacac aattagctca gctccaagaa 180



atggggtttct ttgacacaca agagaacatc cgagccttgg ccgctaccgc tggaaatggt 240  
catgctgcag tggagcgcact tcttggaat atgggctaata agaatatgat gatcataact 300  
gtactcagat attgtgattt ttattcatcc ttgatca 337

<210> 11175  
<211> 259  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-C12  
<400> 11175

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gaagcccgtg gaggagtgcg ggcagccggc ggacttcctc ccgactcct cgtccgagat 120  
gttcgggcac caggtccgcg agctgcgcgc ccgcgcgcgc gggcttcccg acgagtactt 180  
cgctgtgctc gtgggcgcaca tggtcacgga agaagcgcgtg tccacgtacc agaccatgat 240  
caacacgctt gacgggggtc 259

<210> 11176  
<211> 358  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-C2  
<400> 11176

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agattcgatg gggcactcca acgtgtgggg ctgcacccc aagaactacg ggcccggatc 120  
ccgcgtctgc cgggtctgtg cgaaccctca tggactgatc aggaagtacg ggctgatgtg 180  
ctgcaggcag tgcttcgcga gcaacgcaa ggacattggc ttcacaaagt accgctgaag 240  
tcagctgggc gggctatctg aatgccatct cttggacagt gtagtagaag cgatgccaca 300  
attttaatta ctgtcattta gatgttcctt tggagactct gctatttaag ttccccat 358

<210> 11177  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C6

<400> 11177

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tctgttgaat ctgtttcttg acctcccacc ataatacaaga tcatactga attttttact 120  
aaagagccaa ggcaaaccat gaatgcaact gagtgtgttg cacaacgatg tgctcttcaa 180  
tatgctattc tcagtcccac tttcaa 206

<210> 11178

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C8

<400> 11178

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caggccaagg agcttctgta gcatggcgag aacgtgctgg ccaacgaacc cgtggtggtg 120  
aagagaggcc agcacatcgt ggaggtgaac cccagggca 160

<210> 11179

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D10

<400> 11179

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gctactgcaa agcaacaagg aaccagtggg attcaaggag cagcttcttc tactgacagt 120  
aaattcagtg gcaggaaaga acttccagcg gatattctta ctgcactata tccaccatca 180  
actccaatga tgcttggttg gcagagagcc cccattttg gaatgggata cgccgtgcaa 240  
tatccacctg gagtgttcca gggaatgcaa gcatatcttc agcctacata tcagcaacct 300  
gtatattccc aacctgcata ttcccacccc caacctgtga aagcttcaaa cccttttgat 360  
cttgggaatg ggccagctcc aactcaagct cacatgcccc catctggacc accaggagta 420

<210> 11180

<211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-D11  
  
 <400> 11180  
  
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 tccctccttg ccctccttgc tctttcagca agcgctgcta cctctactat tattccacaa 120  
 tgctcacaac aatacctctc tccggtgaca gccgcgggat ttcaacaccc aactatacaa 180  
 toctacatgc tacatgaggc catcgtagca agcatcttac ggtcattagc attaaccctc 240  
 caacagccat atgccctatt gcaacaacca tccttagtgc atctgtatct ccaaagaatc 300  
 gcgacacaac aactacaaca acagttgcta ccaacaatca atcaagtagt tgcagcgaac 360  
 cttgctgctt atctccagca acaacaattt cttccattca atcaactagc tgggggtgaac 420  
 cctgc 425

<210> 11181  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-D12  
  
 <400> 11181  
  
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 ccctttgcc aatagcattgg tagagaacag tggaaggtgc aagactaacg agcatgggga 120  
 gaagatactt ccggatggaa ctccgtgggt tccaaaactg atgaaagaaa ttacttgcca 180  
 tatctcaaac tggagcaagc ccattcatgt tgatcagaac ttaattgatg gttcaaacc 240  
 taacaatcgc tggaagatgt tcataccaat tatacttgct gtggagtact tcttggtagt 300  
 aaaacgaatc cggacggcga tccatgcaga tatcgcatat ggggaaggtgg atgact 356

<210> 11182  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-D5

<400> 11182  
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 gcagggccgg ctatgttggt gctgcctacc tgcttgctat tctcgctggg aatgccagcc 120  
 cctccgttca ttatttgact ggcattctgg actcagctga ctaagaagat gacaatgaat 180  
 agatggaact gctgctgtcc caactgacct gtaaggacat taccgatctc a 231

<210> 11183  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-D9

<400> 11183  
 aatacccggc cggagccacg cgttcgcagg catagtgaag tacactagct acattttatc 60  
 accaatggga gccaaagagg ctagcctact tgccctcggt gctctttcat caagcgctgc 120  
 tacctogact tttattccac aatgctcaca acaatacctc tctccggaga cagccgcgag 180  
 atttcaatac ccaactatac aatcctacat ggaacaagag gccatccaag caagcatctt 240  
 acggtcatta gcattaacct tccaacaacc atatgctcta ttgcaacagc catccttagt 300  
 gcatctgtat atgcaaagaa taggggcaca acaactacaa caacagttgc taccaacaat 360  
 caatcaaata gtagcagcga accttgatgc ttacctagag caacaac 407

<210> 11184  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H12

<400> 11184  
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 cgtgcctctg ccgtgtctgc ctgtgcgaca cgtacgatga ccagatcatc ctgtgcgact 120  
 gctgcaatca tggctatgat ctctactgac tcagtctctg aagaggaaca gtgctcaatg 180  
 tgcattgcaa ctgctaacct tgcaaggagc cgatggagaa ggagaacagg atactgatgc 240  
 tccacacgaa ggattactat gaagacatcc tgaagagtgt cgagttgcat gtaccgaact 300

tgctgcttaa ggccgcgaaa aacgtgaagc gcgatgagga gg

342

<210> 11185

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H2

<400> 11185

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tctaccttca tttttttgcg gtttttgggt tgcctgtgag gtgttggtgt tcctgagtat 120

cttgtcaggt aacatgatat ttcatattta ctcttgaaa taatagcttt tgtatatggt 180

gaaccatgca caattaaaca tagtggctgg gggagggtgtt cttatttctg aattgattca 240

agacatcgat actcccttag ccaaggggtga aagggtata aagccaagaa gacgaagaag 300

ggtgaagaat tcaggttttc ggaagcaata gtgaagacta ttttttggct tctctttgca 360

atatgcttta ttgggattgg atcctcgatc actgctatta ataatctaa 409

<210> 11186

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H3

<400> 11186

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cgaacaaatt cacataatac ttcaaatacca ctctcagaaa cttagacat acaataccaa 120

gcaccataca caaccaaacc atactcccaa agtcaagcct ccctactcta ctatggactc 180

actaaccact gatacccata tacaatgaca ctacatccca attactcaac a 231

<210> 11187

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-H4

<400> 11187

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 tgccagtcgt tgcggcagca gtgttgccag cagctaaggc aggtggagcc gcagcaccgg 120  
 taccaggcga tcttcggctt ggtccctcca gtccatcctg cagcagcagc cgcatagcgg 180  
 ccaggtcgcg gngctgttgg cggcgcagat agcgcagcaa ctgacggcga tgtgcggcct 240  
 gcagcagccg actccatgcc cctacgtgc tgccggcggt gtccccact gaagaaacta 300  
 tgtgctgtag tatagccgct ggctagctag ctagttgagt catttagcgg cgatgattga 360  
 gtaataatgt gtcacgcatc accatgggtg gcagtgtcag tgtgagcaat gacctgaatg 420  
 aacaatt 427

<210> 11188  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11188

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 accattggca tttctgtgga tcaccgcgc aagaacaaat cccttgaggg gctgcaggcc 120  
 aatgtccaga ggcttaagac atacaaggcc aagctgggta tcttcccaag gcgtgctcgc 180  
 aaggtaagg ctggtgactc tactctggag gagcttacca ctgctacca ggtacagggt 240  
 gactacatgc caattactcg cggtgagaag cgctctgtag aggttggtgaa ggtcacagat 300  
 gagatgaagg cgtttgcggc ctatggcaag ctccgccttg agcggatgaa caagaagcac 360  
 ctcggtgccc gccagaagaa ggcagctgag gcagagaagg aagacangaa gtg 413

<210> 11189  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-H6  
 <400> 11189

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agcatagagc aatatgaaac tcggccaaat atttctgaga ttgatcacat aactgaggag 120  
 ttcaacaaga agtccaattc gctgtacact atcttgagga gtagtcgcct cgcgggtagt 180  
 cagagagcac ctttcctgag gcaatttctg atgaggctaa attttaactc tttctttgag 240  
 accaccgcaa ggggagtgat gaattcagga aggctgcgac caatcactgc aggtgctcag 300  
 ctgtaacggg gatggtatgt ttgggggtag tgctgcagca agagacaagg gaggagtttc 360  
 tggtagttat gtaaattatg atcggat 387

<210> 11190

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H7

<400> 11190

ccttgatgga gctaattgtg aaataagaga ggaggttgga gaagataatt tcttcctgtt 60  
 cgggtgcaaaa gccgatgaag ttgctgggct gaggaaggat agagaaaatg gtctgttcaa 120  
 accagacca cgttttgaag aagccaagca gtttataagg agtggcgctt ttggcagcta 180  
 tgactatgaa cctctcttgg attcccttga agggaattct ggatttgggc gtggtgatta 240  
 tttccttggt ggctatgact tccaagcta catcgatgca caggatcggg tggatgcagc 300  
 ctacaaggat aagaagaagt ggaccaagat gtccatcttg aacacagctg ggagtggcaa 360  
 attcagtagc gatcggacca tcgcccagta tgccaaggag atatgggaca tcaaggctag 420  
 ccctgtcgtg tg 432

<210> 11191

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H8

<400> 11191

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 tactgtggtg gccgttgagg ctgctgctac ggcgggtggct ggcgccgtga tggcggtggc 120  
 ggctacggcg gtggctgcag atacggtggc ggctagaagc tactgtggtt gtggccagcg 180

ctacgtgtgt ggcaaccgtg gcggcgggta cggcaactcc gactgtaact ggaggaactg 240  
agcgggtgggg cccgtgcggt caagttatct ctgttcgcta ccgtgatgtt taccctagtc 300  
cagatgggtt atcttcgttc gtgtcgtgtt agttgctgcc catctgcgtt tttgattgca 360  
aggtcgctct gtgtca 376

<210> 11192

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H9

<400> 11192

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cctgaatgaa aggattaaaa gatggataga ggaagaatct tttgaacagg ataaacatac 120  
tgaactccat ttcataatct tggatctgtc agctgttcct gcaattgaca caagtggcat 180  
agcgttcctc attgacataa agaaatcaat agagaaacgt ggtctggagc ttgtgcttgt 240  
caatccaact ggagaagtca tggagaaaat acaacgtgca aacgaggctg aaaactatct 300  
taggccagat tgcttgtatc tgaccactgg cgaagcaatc gcttcacttt ctgcacttgc 360  
caagatgaca aaaccctaaa tggattgctg aattgtcat 399

<210> 11193

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A10

<400> 11193

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gatgtcaa at cgaacaaaag atatgcaggg gcatcaaact ggacagtaaa ggaagttgtt 120  
gaatcagtga ggaatgattt tggcagcatt gacatactag tgcattctct tgctaattggc 180  
ccagaggtaa cgaagccttt gttggaaacc tcaagaagag gctatcttgc ggcaatttct 240  
gcatccagtt actcctatgt ttcattgctt cagcacttcc ttctataat gaatcccggg 300  
ggtgctagca tctctctaac atacattgca tctgaaaggg cgattcctga gtatgggtgg 360



gggatgagtt ctgctaaagc agatctagag agcgattcac ggttgctt

408

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<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A11

<400> 11194

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ttctgaaact gctgctatct ttgctggtgt tgatgtcacc aaggagccca ttccagtttt 120

gcctactgtg cactacaata tgggcggtat tccaacaaac taccatgggg aggtagtgga 180

tatcaagggt gataatccag atgctgttgt tctgtgtcta atggctgctg gtgaagcagc 240

ctgtgcatct gttcatggtg cgaataggct aggcgcaaact tcgcttcttg acatagtgtg 300

ttttggcaga gcttgtgcaa acagggtagc agatatttct aaaccagggt agaagcagaa 360

acctctggaa aaagatgctg gagaaaagac cataacctgc ttggacaagc tga 413

<210> 11195

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A12

<400> 11195

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gcctccttat gctccttggc ctttctgcaa gtgctgttac ggcgaccatt ttcccgcaat 120

gctcgcaagc tctatatagt tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg 180

tatgtgaaaa cccaattctt caacctaca ggatccaaca ggcaatcgca gctggcatct 240

tacctttatc acccttggtc ctccaacaat catcagccct attacaacag ttacctttgg 300

tgcatttatt ggcacaaaac atcagggcac aacaactaca acaacttgtg ctagcaaacc 360

ttgctgccta ctctcagcaa cagcagtttc ttccattcaa ccaactaggt tcattga 417

<210> 11196

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-A3

<400> 11196

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aagattatat ttgaatagaa ggattgtatt ttggtgagac aattctcatg ttgcaagatt 120  
agaggcaata tgggttcttc ttgcttatgc ttgtgcttac aacattaaac tctaccaaatt 180  
ggatgtaaatt gacgtttttt ctaaagtcta agattagtga actagtgtat gtggagcaac 240  
ctctcgggttc tgaggacccc caaagcattt ccacatgttc aagctttcta aaccttcta 299

<210> 11197

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H11

<400> 11197

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gggggaatgt ttccgcaaac aatgtgggct gctgagttcg aaggcatatc tgggtgcacat 120  
tgaacattgg tgcacatggg gatgactgaa tatgtgcagc atgtgcacca atcttgcattg 180  
tgcattacat atgttctcgc tgagtaatcc acctgtggcg aatatataaa gcagtcattt 240  
ctcagtact ggagaaatca tggagaaaat caacgtgcaa acgaggctga aaactatttt 300  
aggccacatt gcttgtatct gaccactggc gaaacaatcg ctttactttc tgcacttgcc 360  
aagatgacaa aaccctaaat ggatt 385

<210> 11198

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B10

<400> 11198

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aggaagaagg acaacaacac tgtcagcatt caagggagga aggagggggg caatggtgtc 120

cttaagtttg acacgcaa at ctttgagatc acaccatcct gccatctcgt tcagattaaa 180  
 caaaccagtg gcgatctact tgagtacgag aaactgttgg aagagggcat ccgaccaggg 240  
 ttaaaggacg ttgtctcggc ctggcataga gatgatctgc agcagaagta gcttcggatg 300  
 tctcccgtag attctgttct agtacatttc attccttatt ttttagcag ctacattcct 360  
 tttttgtatt ggtgggtgata tgaaccatta gcttgtgttt tggtagtaa taat 414

<210> 11199

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F4

<400> 11199

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 atcacttagc tagggcaata tggaacacat gagcttcatt agatatgacc tactggctat 180  
 tattggggag tcagcgtata gtgcaagtgc tttagtgtc atgtatgatc attttgctag 240  
 cttatcaact cgttgttcaa gaagaaggct cgactttctg cggaaagctg gtattatcat 300  
 gatgatgatc gccacagatc ttat 324

<210> 11200

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F5

<400> 11200

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 tcggcggcct cgcttgggcc acggacgacc actccctcca caacgccttc agcacctacg 180  
 gcgaggctct cgagtccaag atcatcctcg atcgggagac gcagaggctc cgcggttcg 240  
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
 aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggtg tgggtacggt ggt

383

<210> 11201

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F6

<400> 11201

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ttatatactg ctgatgatca tcctgagccc tggctgcagg gagatgatga atggtgacgt 120

aaacatgctt ctgtttgttg ttacttttgg ttgtattttt tttgggttca ctttatcttg 180

gtcaatacgt accacattag atcacagcaa ccaaattcga tcttaatttg taccatttga 240

tatgagaccg agacaataaa aaagggttata ctgtcc 276

<210> 11202

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-F8

<400> 11202

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atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg 180

atgatgggcg ccggcggggt gtacccttac gcggagtacc tgaggcagcc gcagtgcagc 240

ccgctggcgg cggcgcccta ctacgccggg tgtgggcaga cgagcgccat gtaccagccg 300

ctccggcaac agtgctgcca gcagcagatg aggatgatgg acgtgcagtc cgtcgcgcag 360

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ccagctctga tgc 433

<210> 11203

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F9

<400> 11203

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tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180  
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240  
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360  
gctgcggcgg tgggtacggt ggt 383

<210> 11204

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G1

<400> 11204

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gacctcattg agaagttgct caactacaac accctagaga agaccgagac aagttaagcg 120  
agcacatcat gtcctcaaaaa cactactggt tggcagtatc atagagctta ggtagtatgt 180  
tgtctcttct ctatcagtag aaatgggttg tgagtgtgaa catgcttttc aaggactttt 240  
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<210> 11205

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G11

<400> 11205

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gtgactatag tcgtgatctt agatctgcac ctaaagttcc tgttgacaca accgtagctc 180  
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<210> 11206  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-030-Q1-K1-G2

<400> 11206

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 aaacactgga taagtgcctg gtccgtgagt accgaatgtc catgaatgga atctcaaagc 180  
 aattntctca tgaattctgc gagggagtca gagcagcact agtcgacaag gacttcactc 240  
 ctaagtggga tcctnctgcc cttgagtatg ttacgaatga catgggtgac gcatacttcg 300  
 cacctcttgg cgattcggag cctgagttga agctgcctat agaatcgga gaggcatttg 360  
 tatgatcaca natcattcca agaaccggat cattgcaagt accggactgg gacctgataa 420  
 acgtgttata atct 434

<210> 11207  
 <211> 146  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G3

<400> 11207

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 aataagaaag tacatttcta gattct 146

<210> 11208  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-G4

<400> 11208

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 cttgacgcgt gataagttcg gagataacac gctcatagtt taagacctgt ctgactactg 180  
 gcagaacatg acatcatttg attttctgtt catagttggg aaatcttgtt ttgtttcgga 240  
 ctaatgcttg ttccatggat ttttaacgaa tacatttagg gtctgttctt ctaatgttaa 300  
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 tccagctgat caaatcttat atattctaga taagc 395

<210> 11209  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 caacatcaga ttgttacagg ctctatagc ttnccttctt cccccgtacc tctcaccagt 180  
 gttgtcttca gtatgtgaaa acccaattct tcaacctac aggatccaac atgcaattgc 240  
 atcaggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca 300  
 gttacctttg gtgcatttat tggcacaata catcagggca caacaactcg tgctagcaaa 360  
 ccttgctgcc tactctcagc aacatcagtt accttgggtg catttggttg cacaaaacat 420  
 tatggcaca caa 433

<210> 11210  
 <211> 390

<212> DNA  
 <213> Zea mays  
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 acaaactact ttgtatatct ctacatcgac tctaaagctg tcttgctatt caagtctggg 180  
 tgattgtcgc agccaataga gtcaaccttg catgcctaca tcttctttct ctcgtgtatg 240  
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 ttatgaacct gcatgttgat gtatcaacaa cggattattc ttcgcatgcc ataattgtgag 360  
 atcaagttgc atcttaatta tggctgaaat 390

<210> 11211  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-G8  
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 cctggcatct ttgtttgctg tagtcagttg atttaattgaa ctccgaaatg tctcatggag 180  
 gaaaattttc ggtcgctgt gtagcgtctt gttaaatgag caaccttcac aataattcaa 240  
 gctcggtaga attc 254

<210> 11212  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-F3  
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tcatgatgcg gaaaatgatg tagatcaaga attagatgat gccgagcgaa tgctgagtgg 180  
 aaaattcact gaaaccagtg caagtgcttg tgctgacctc tatgaccaca aggaagttaa 240  
 tggcaatagt tcagacactg agctctttgt tgaggatcac acatttgaat caaatgtaga 300  
 tttaaatgat gctcccctaa gtcgtttaac agaaaatgga aagggtccat caaatctgat 360  
 gtccgctcat gaaactccat tatcagtggg agagattctt ctgtctttgg atgctgga 418

<210> 11213

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-H10

<400> 11213

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 tgtcttcagt atgagaatac ccaattcttc aacctacat gatccaacat gcaattgcat 180  
 caggcatctt accttcatca cccttggttc tgcaaacctc atcatcccta ttacagcagt 240  
 tacctctggt gcatatattg tcacaaaaca tcatggcaca acaactcgtg ctagctaacc 300  
 ttgctgcta ctctcagcta cgacagttac ctttggtgca tttgtaggca ctgaacattg 360  
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<210> 11214

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D8

<400> 11214

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 ccagctaaac atcaacctac ctaaaaactaa ttccttttca tctaacgcaa cattgatcaa 180  
 cgaactctac tgcttattac actgcagcaa caactactac catacagcct aatagctgac 240  
 ctgagccctg atacattcat gacacaatat cagctcattg ccgctctacc atcacgatct 300

cgactaacga attgcaccac ttttacacac tgcaacaatt agcttccatt a 351

<210> 11215

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E2

<400> 11215

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aaaacaaaaa aaaaatcaaa ccgcaaaatt tcaaacttaa caatacaaac accccaat 118

<210> 11216

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E3

<400> 11216

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tgcgatgatg gcagtttctc agttcgtgat cttagatcaa ttgaggagga ctctgttggtg 180

gcacattttg agtaccacaa gaaagcaatt acatctatcg agtggagtcc acatgaagca 240

tcatcattag ctgtaacatc tgaagatcat caactaacia tctgggacct ttcactggaa 300

agagatgcgg aggaggaggc tgagttcaga gcaaagatga aggagcaggc aaacgcacct 360

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cactg 425

<210> 11217

<211> 278

<212> DNA

<213> Zea mays

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<400> 11217

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 accctgcacc agctagtata cctcatagct ctgcgttggc accacttccc ggaagagggg 180  
 gcttggttga ccaagatgtg aactctgata ctcaaatca tctcttggtc ggtgttagta 240  
 tagactcgca gtcactgcta atgcaagggg gcatttct 278

<210> 11218  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-E5  
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 cgagtacatc atgacagggc atctaacgac caagagcgcac gtgtacagct tcggcgctcgt 180  
 gctcctggag ctgctaacgg ggcggaaggc gttggacaag aaccggccgc cgcgagagca 240  
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 ggaccggagg ctgccgcgcc ccaccacgcc caccgagca gcccaaaagg ccgccgggat 360  
 agcccaccag tgcctcagtg tcagcccca atcccgccc caaatgtccc acgttgtag 419

<210> 11219  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-E6  
 <400> 11219

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 gtggttggcc gtgaccgct catgctagag accgacttcc agaacctccc ctacctacag 180  
 gccgttgtca aggaatcact ccggctgcac ccgccgacgc cactcatgct ccgcacaaag 240  
 gccagctcga acgtcaagat cggaggttac aacatcccca agggcgccaa cgtgatggtg 300  
 aacgtgtggg cgggtggcgcg tgatcccaag gtctggagca acccgctgga gtacagaccg 360

gagcgcttcc tggaggagaa catcgacatc aagggcagcg acttcagggt gctgccgttc 420  
 ggtgctggcc ggcgtgt 437

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 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E7

<400> 11220

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 acaatgctca caagctccta tagcttccct tcttccccca tacctctcac cagcgggtgc 180  
 ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tgcgaacagg 240  
 catcttacca ttatcacctt tgttcctcca acaaccgtca gccctattac agcagttacc 300  
 tttgggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360  
 aaaccttgcg gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420  
 gaactc 426

<210> 11221  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E9

<400> 11221

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 ggttgagtcc cattgggtctg gtctcaggga gttgtcatgt cagtcccagt cagcagggtc 240  
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<210> 11222  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-F10  
  
 <400> 11222  
  
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 gccggtgggtg gtcaaagtcc tctgggttat ctctttggaa gcggtgagcc ccccaaacca 180  
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 gcggccaagc aggttgctgc tggggttacc agccaaacca ataactacca cagggctgat 300  
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<210> 11223  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-D7  
  
 <400> 11223  
  
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 gctggcacc ctttacaact gcaacaattg ctgccattca accaacttgc tttgacaaac 360  
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<210> 11224  
 <211> 398

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-B9  
  
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 tggacaagtg ggggtggcaag ccggacgtat tggttgcctg cgtcggcggg ggatcgaacg 300  
 ccatgggctt attccatgag tttgttgaag accaagatgt gaggctgggt ggagtggagg 360  
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<210> 11226  
 <211> 64  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-C12  
  
 <400> 11226

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aggg 64

<210> 11227  
<211> 298  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tctaccaaca acacatcatt ggcggtgcc tcttttagat tgcttattag ttgtcattca 240  
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<210> 11228  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C5

<400> 11228

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aagttccctc agggtttctt ccacccaaat gtctatcctt ctggaacagt ctgtctttcg 180  
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ctttttatcc aggatcctac agaataaag aggcgtgtta aactgcaggc gaagcagtat 360  
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<210> 11229  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C6

<400> 11229

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atgcgcttgt gcatgatgta tgatgtatca ttcaaagagt atcttgatat tctttctgca 180

gaacatgaag aaactgtagg aagggaccgt atgagttttg atcaatgtca gtcactttaa 240

cagacatttt gtactcatgc ttcattgtgc tagatagcat cttatcttta tctt 294

<210> 11230

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C8

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tgctcacaag ctcttatagc ttcccttctt ccccgctacc tctcaccagc ggtgtcttcg 180

gtatgtgaaa acccaattct tcaaccctat aggatccaac aggcaatcgc agctggcatc 240

ttacctttat cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg 300

gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt gctagcaaac 360

cttgctgctt actctcagca acagcagttt cttccattca accaactagc tgcattgaac 420

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<210> 11231

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D1

<400> 11231

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<210> 11232  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D10

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 gccaggttca tattggattt gctgaagaat gctgagagta acgctgatgt gaaaggcttg 240  
 gacgtggaca acctctatgt ttcacacatc cagggtgaacc aagcccagaa gcagaggcgc 300  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D12

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aagatttagt tgctcatctg ctatgttggtg tagtgctcgg cttttcacta caggaaacgc 300  
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<210> 11234  
<211> 432  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 11234

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tccacaatgc tcacttgcta caagttccat tattacacag gtcctaccac cagatactta 180  
atgggctttg acaccagct gtgcaagcct atatgctaca acaagcaatt gcggcgagcg 240  
tcttacaaca accaattttc cagttgcaac aacaatcctt ggcacatcta acaatacaaa 300  
ccatcgcaac gcaacagcaa caacaattcc taccagcact gagccaccta gccatggtga 360  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-030-Q1-K1-D3  
  
<400> 11235

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ggctgccagc caccgccgcc ggttcatcta ccgccgccgg tgcactctgcc acctccggtt 180  
cacctgccac ctctgtgca tctcccaccg ccggtcacc tgccgccgcc ggtccacctg 240  
ccaccgccgg tccatgtgcc gccgccggtt catctgccgc cgccaccatg ccactaccct 300  
actcaaccgc cccggcctca gcctcatccc cagccacacc catgcccggtg ccaacagccg 360  
catccaagcc cgtgccagct gcagggaacc tgcggcggtt gcagcaccgc g 411

<210> 11236  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D4

<400> 11236

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agatggcagc caccaacgac ggttcatgta ccggctttac aacatctgcc acctgaaaac 180
acctgcgata tcctatgcat ctgccaccga cgagacacct gtttgtcgcc ggtccacctg 240
taaccgacag gccatgtccc atcgcccttt catacgacgc cgccaccatg acagtacatt 300
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catt 364

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<210> 11237  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D5

<400> 11237

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ctacttgttt aagtggtaaa gggtcgtttg cttatggaat ctatttgggg gctcttcctg 180
ttatatcgag caattcgctt gctgtcaaaa ttctctatcc tatattttgg ggactcatga 240
cactcagtac ttttggtaac gatcttgccc caacaagcaa tggatattgag gtgatattca 300
gcataatcaa tgtcctcagt ggcctgatgc tcttcacatt gctgatcgga aacatacagg 360
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B8

<400> 11238

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ggagggattt ggaggccttt ataagggcct tttcccctct ttggtgaaat cggcccctgc 180  
tggtgctgtg acatttgtgg catatgaata catctcagac tggtagagt cgatactgat 240  
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atggagctat caagatacca tgacgagAAC tttttgcaca ccgtggacat ggaggatgga 360  
gaccggaagg tcaatcgtca agtgcataca attcctagag atccgataca tgtaaagcct 420  
tacatagaaa ag 432

<210> 11239

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D6

<400> 11239

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tcagcaaaaa gttttgttct gctctatcag tcggccaaag ctgaaatttt caaatattct 180  
agatcagagt gattagcatg ctacttctga acagttgcag caattgtcta tcctgcggaa 240  
ctatttatgg gactgtgtat tgtaagtcg gttttctccg agttatacga gacgtatggc 300  
atcttgagat gtgtcaccaa aaaaaaaca aaaactaa 338

<210> 11240

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A11

<400> 11240

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tttcacttcc tatectactt acaccttttt tccatatttc tcacaccact tcctttctcc 120  
tctgactgcc tcaacattct attccccaac tataacctcc ttcttgctac aataacccat 180  
cacaccatgc atcttactgt cctagcattc actgtccatc aaccatatgc cctatcgcta 240  
cagccatcct tagtgcattt atatcttcaa acattcgat cacatcaact tcaacatcaa 300  
ttgcttacia ctattaatca cgtccttgca gcgaaccttg atgcttacct tc 352

<210> 11241  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-030-Q1-K1-A4  
<400> 11241

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cagaggtttg tgtattgaag ataagatcca tcagtcctta ttctgcattg gcttgccatg 180  
ctacaggaaa aatatatgaa gcaaaaggtc ttagaaaaga agctttggga gcttttttca 240  
gagccttaga tcttgatcct aaacatgtcc caagttaat atcaactgcc actgttctac 300  
aacaacttgg tgacaggcca ttgccttcta tacgggtgctt cctgactgat gcattacaac 360  
tggatagaac taatcatggt gcgtggttca atcttggcct tctttacaaa gaggaagggtg 420  
gcaggctcagc 430

<210> 11242  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gaagaactat gacctcaaa aggacaagcg cttcagcggg tctgttaagc tgctcacat 120  
ccctcgccct aagatgaagg tttgcatgct tgggtgatgct cagcatgttg aggaggcaga 180

gagaatgggt atagacaata tggatgtgga agccctcaag aagatgaaca aaaacaagaa 240  
gctagtgaag aagctggcaa agaagtacca tgctttcctt gcatctgagg ctatcattaa 300  
gcaaattcct cgtcttcttg gtcttggtct taacaaggca ggaaaattcc ctaccttggt 360  
gacacaccag gaatcccttg agtccaaggt taatgagaca naggctacag ttaagttcca 420  
gctgaa 426

<210> 11243  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-A9

<400> 11243

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cgagaacggc gtcctgtggg aggtcgagg aaagtgggtc acccaaggctc ctgttgatgt 180  
ggacattggt gccaatccat ccgacgagg tggtgaggac gaaagcgttg atgacacagc 240  
tgcaagggtg gttgatattg ctgacacatt ccgtctacag gagcaacctc cttttgacaa 300  
gaaatcattt gtgtcttaca tccaacaata catgatgaat ctactgctg tgggtggagcc 360  
agagaaagcg gatg 374

<210> 11244  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B1

<400> 11244

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ggatatgagc ctattcagtt gcttctacga ttttgtttcc ttcattctgcc gtgaaaagg 120  
caaaagagtg tcaactattca gagagctgta gcagcatgga ggattgttct aagtggaagg 180  
ttccgtttgc ttgatcgatg gtgtaacttc gttgagaagt accaacgcca taacatatcc 240  
gaggatactt ggcagcagct gctagctttc agcaggtgtg taaatgaaga tctggaagg 300

tatgaccac gaggtgcttg gcctgttctg attgatgatt ttgttgagca aatgcacaga 360  
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<210> 11245  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 agcccgtgcc agctgcaggg aacctgcggc gttggcagca ccccgatcct gggccagtgc 180  
 gtcgagttcc tgaggcatca gtgcagcccg acggcgacgc cctactgctc gcctcagtgc 240  
 cagtcgttgc ggcagcagtg ttgccagcag ctcangcagg tggagccgca gcaccggtac 300  
 caggcgatct tcggcttggc cctccagtcc atcctgcagc agcagccgca aagcggccag 360  
 gtcgcggngc tgttggcggc gcagatagcg cag 393

<210> 11246  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-B11  
 <400> 11246

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 aatagtactg tttatgcgtg ggggtaccatt ataatatatt aacgatgttc ccattgctgc 120  
 atttacaatt catagagaca acatagtata aatagtagaa gccgttacgg attaaaacca 180  
 aactagcagg ctctatcttt tataagtaca aaattgtgcc gaatgctcta tctttcataa 240  
 gtacaaaatt gtgccgaaaa aaaaatgcga cagtcattga agtcattctag ctaaaaaagg 300  
 tagcaacctc taatacatcc atga 324

<210> 11247  
 <211> 290

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B12

<400> 11247

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 aagagaaaaa aaaaaaaaaa aaaaaaaaaa caaaagtaac tacttcagaa aaaaaaaaaa 120  
 aaaaacataa ataaagcaaa aagaggccgg ccattctaaa gaatccaaca ttcaaaccga 180  
 gaacgttgta cgcatgaagt acgttatgta tactgctaaa caaagtaaga ggccatttga 240  
 gcatagcttc cagtgcggaa actacaaggt tccaacaaac tgatgatatc 290

<210> 11248  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B3

<400> 11248

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 attggaactt tctcaactcc aaatcctgtt tctcatacta ggtctactat ctttgtgggc 180  
 cgtggacttt gtatattttg gtggtggggg gagaaacttg gttcttgata caattgggtca 240  
 ctatcttagc cagaagtatc acaacagagt tatccagcat gaagctgggc acttcttgat 300  
 agcttacttg cttggagtgc ttccaaaagg atacacaatc acaagcttag atacacttat 360  
 gaatcaaaga tcgcttaatg tgca 384

<210> 11249  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B4

<400> 11249

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cgtcttgtag gcctcgatga cgaggagcac ctcgttggcg cccttgcttg acagcccgtg 180  
 ctgctggctc agacgacca ggttgccag caccctctcg aacaggcaga acacctcgtc 240  
 cttggccgcg aacgacctgt ggcggaggag cgcctgggtg gtgtgggagt aggcgaggtg 300  
 gccgtggtcg ccgagctgca cggacacggg cggctcggag gcggccagga agcgcgccac 360  
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 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B5

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 catctcacac aacaaataca caacataacc aaactacaaa caaccgcta ctactaaaaa 180  
 acccactacc atcatccaat caccataac tccaaaacat tacctcatcc ccactattac 240  
 ataattacaa 250

<210> 11251  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-B6

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 atgtgaaaac ccaattcttc aaccctacag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttgttcc tgcaacaatc atcagcccta ttacaacagt taccttcggt 300  
 gcatttattg gcacaaaaca tcatggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct ttcatccaac caactagggt cattgaactc 420

<210> 11252  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-030-Q1-K1-B7  
  
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 tctccgtgct cgcggctgcc agcgcacagc cggggacctc ctgcgtgccg ggggtgggcca 180  
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 ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300  
 cggcgtactg ccggtgcacg gcgctgagca tcctcatgga cggcgcgac cggccggggc 360  
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<210> 11253  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 11253

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 atatgtttat tcagattgta gatgattgct ctcttgagc cttgcttttg gtatcaaaga 180  
 cacttcctta tttggtcccc tattacacag gcaaagagaa gacgaggtag aacccaaca 240  
 cctgggaagt atcttggcac aaaatcatcc cgtggacgga ggtactccac aagctactca 300  
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<210> 11254  
 <211> 455  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G5

<400> 11254

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atgctttctt cgtaccgctc cagtcattctc tgcntgagaa ggggcctacc acgagcnnag 180

ctctctgtgg ctgagatcac caacagcgcc ttcgagccat cttccatgat ggccaagtgc 240

gacccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga tgtgggtccc 300

aaggatgtga atgctgctgt ggccaccatc aagaccaaac gcaccatcca gttcgtggat 360

tggtgcccga ctggcttcaa gtgcggcatc aactaccagc ctntagcgt tgtgcctggg 420

ggcgacctgg ccaaggtgca gcgtgccgtg tgcat 455

<210> 11255

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G7

<400> 11255

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actgagaggg gcaacagcag cagaaacacg gcgccatgat gacggcgctc aaggccgcga 180

cagccgcgac cttccgccgg tcgatgctgc agctgtacgg gctgatcctg gcctgcacc 239

<210> 11256

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G8

<400> 11256

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atgtgttgct aacgcgacaa ttttccctca atgtcacaa gtcctatag cttcccttct 180  
tccccatac cttccatcaa tgatagcttc agtatgtgaa aaccagctc ttcagcccta 240  
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<210> 11257

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G9

<400> 11257

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actccgcca cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga 180  
agactgcgag gttcaaggag ctctcctcctt atgacctga ctggtactac atcagggctg 240  
catccattgc aaggaagatc tacctaaggc aaggcatcgg tgtgggtggc tttcagaaga 300  
tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 360  
ctgttgacg caacatcctg cagcagctgc agattatggg catcatcgat gtc 413

<210> 11258

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H1

<400> 11258

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tggccctcga cgcgtccgcg ggtggaattg ccgagaagcc gagagagagg gcttggagcg 180  
gagttgcggg aggtgggaga gaaggcggcg atggggcgcc tgttcctgat gcacctggac 240  
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tccaaggcct tccagtgcaa gcacggcaag gcgtacctct tccataaggt tgtcaacgtg 360

acttctggag taaaagaaga ccgcatgatg atcacaggaa tgcatactgt atctgatatc 420  
 ttctgtgttg gct 433

<210> 11259  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-H11  
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 ttgggatgct attgctaaga aggaaaaaat tgaggggtgta gaactagagc ttcggaaact 180  
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 gatgcgaact gtgagtgaga caacaaattc aagggtcgtc tggttcagta ctctgtcgtc 300  
 atgggtctgc attgcggtat cgtttttgca agtccgacac cttcaagggt tcttcagaaa 360  
 gaagaagctc atttagagtc tctctgtaag atg 393

<210> 11260  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-H12  
 <400> 11260

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 taggttcttg cagcgagggt ttattgaatt aaactcttgt taaggatatg tttttggacg 180  
 atcctatatt tcgtcctggc gctactatgg ttcagaatgg tgggtactact ataagtatcc 240  
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<210> 11261  
 <211> 416  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H2

<400> 11261

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accttaacct gaaccggag gttgtgataa tgcattgggc atgtgagaag ataacagcat 180

caacaactct tccagataca gtccttcttg atggctctgct tgataagctc aggctatgta 240

aagggatatac atatgctgca gtggcagctc atgcagataa cagtggctga cgaagggttg 300

ctgcaatgct cgttgatcat gagtcacagt cctctaagca gatccccctg ttgctcagca 360

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<210> 11262

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H5

<400> 11262

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aggatggaac tacaactgca ggcaattcca gtcaagttag tgatgggtgct ggagctgttc 120

ttctcatgaa aagatctgtg gctctgaaga aagggtgcc cattcttggt gttttcagga 180

gctttgcggc tgttggagtg gatccagctg ttatgggtgt tggctctgct gtggccattc 240

ctgctgctgt gaagtctgca ggccttgaga ttggcgacat tgatctgttt gaactgaatg 300

aggccttcgc ctctcagttt gtctattgct gcaacaagtt ggggctggac cgttctaaag 360

taaatgtaaa tggaggcgcg attgcccttg gacacctctt gggtgcaaca ggttgcccg 420

gtgtggc 427

<210> 11263

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H6

<400> 11263

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gaaccctgct gcttatttgc agcaacaact attaccattc agccagctag ctactgccta 180

ctctcagcaa caacaacttc ttccatttaa ccaattggcc gcactgaacc ccgctgctta 240

tttgcagcag caaatactac taccatttag ccagctagct gcagcaaacc gtgcttcctt 300

cttgacacag caacagttgc tgcccttcta ccagcagttt gcggctaacc ccgcaaccct 360

cttacaacta caacaattgt tgccctttgt ccaacttgct ttgacagacc cagcggcctt 420

ctaccaacaa cacatcattg g 441

<210> 11264

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H9

<400> 11264

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aaatttccag ttcttgcttc ttctcttgg aggaggagg ctgcagcctg caggggccgg 120

agagagcagg aggaggcgga gacatgggta gcttcgctaa gctggcgagg agggcggtgg 180

agacggacgc tccggtcatt gtgaagatac aagaactgct ccgaggggcc aaggatgtga 240

tgtegcttgc gcagggagtt gtttactggc aacctcccga gtcagctatg gataagatcg 300

aaaagatcat cagggaaacca atagtcagta aatatggttc tgatgatggg cttcctgagc 360

ttcgagaagc acttctcgaa aagctaagca gagagaacaa gcttaccaa tcatcagtca 420

tggtcac 427

<210> 11265

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G4

<400> 11265

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 acccctgctg caaagaagga taatgctgag ggacaagagg ttgaggcagc agctgaggaa 180  
 acgaaaaaga gcaaccatgt cacgaggaag cttgagaagc gcaaggaggg acgtaccctt 240  
 gacccacaca ttgaggagca atttggcagt ggacggttgc tggcatgcat ttcttcccgc 300  
 cctggacagt gtggccgagc tgatgggtac atccttgagg gtaaagagct tgagttctac 360  
 atgaagaagc tacagaggaa gaagggaag agcgtcttag cttagagcat tctcatggat 420  
 tgtcttgac cgaaatgtgt g 441

<210> 11266  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-E8  
 <400> 11266

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 tcgaggtaaa aggacagcat ggtgagggtc agcgtgctca atgatgctct caagtccatg 120  
 tacaatgctg aaaagatagg gaaacgtcag gtcgatgca ggccgtcatc caaggtgatc 180  
 atcaagttcc tgacgggtcat gcagcgccat gggttacattg gcgagttcga gtacgtggat 240  
 gaccacagag ctgggaagat cgtggtggag ctgaatggaa gactgaataa atgtggtggt 300  
 attagccac gttttgatgt aggtgttaag gagatcgagg gatggacggc gaggcttctt 360  
 ccatctcgcc agtttggtta catcgctcta acaacttctg ctggaattat ggaccatgaa 420  
 gagggccgcc gtaaga 436

<210> 11267  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-E9  
 <400> 11267

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tatgctcctt gctctttctg catgtgttgc taacgcgaca attttccttc aatgctcaca 120  
agctcctata gcttcccttc ttccccata ccttccatca atgatatgctt cagtatgtga 180  
aaacccagct cttcagccct ataggctcca acaagcaatc gcagcaagca acataccttt 240  
atcacccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtagaaac 300  
catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag tagctctggc 360  
aaacctttct cctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacac 419

<210> 11268

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F11

<400> 11268

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caattagtgc agcatggttt taaagatgca attgccaaag ttggattaac aaagctgatt 120  
tctaattttt ttgtggtggg cttattctat cacctttata accagtatgc taaaacaca 180  
ttgtagctgg tagccctttt aacacatgcc atcggaatg tgttgaaacg tgtcttcgtc 240  
attggctttt ccatcatcgc attctgcaac aagatcacca cacatactgg aatcggcact 300  
tgcattgctg tttctggcgt tgccctctac tcatttataa aggctaagat tgacgacaaa 360  
aagcacctta agagtgcata a 381

<210> 11269

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F2

<400> 11269

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gcgccgtcat tggctctgtc cgcaaggacg ctgccttat aaccgctcga ccgtctgcaa 120  
atgcagcggc tctgggattc gacgacgagg tttatcgctg ggacgccacc gttctacatc 180  
ccatcatcga cgagggccat attccggata tcggcaccga tggcgccgac gagactgggc 240

aagcctataa catcaatgct gatacagcag ctggcgagat tgccgctgac gtgggcgccg 300  
 agaagctgct gttgctcaca catgtgtctg gcattttggc ggaccgtaat gaccctgcga 360  
 gcctggtgaa ggtggtcgac attgctgcgg tgcg 394

<210> 11270

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F4

<400> 11270

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 cagctggaca agattacccc ggtacacttc agtggcctgt ttgatatgat gtaacatcat 120  
 tgtcatggaa tgttcttggc taacataaca tactcaatta tcagatcctg aattgaaaca 180  
 ccatgtttgt ttttatttga tgaatgatgt cgcttattgc tatactgtgc aaagtttacc 240  
 actatggcgc taaccgcgtt gtttatgcat ccagcatctt cgtaccgacg agaatggaat 300  
 tgcaatgttc aaaggtgttc cctttactac atcagctggc ccatgtagat cttcgattca 360  
 caacggaaat gttaagttag cagctcatta gacatggttg catagattga catcaaactt 420  
 atgc 424

<210> 11271

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F5

<400> 11271

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 cggcgtcgga tggtgagtac cgctgcttcg tcggcggcct cgcctgggccc acggacgacc 180  
 actccctcca caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg 240  
 atcgggagac gcagaggtcc cgcggcttcg gcttcgtcac cttctccacg gaggaggcga 300  
 tgcggaacgc catcgagggc atgaacggca aggagctgga cggccgcaac atcacgtca 360

acgaggccca gtccccgccc ggccgtggag gcggcgccgg tgggt 405

<210> 11272

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F6

<400> 11272

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gaaaaataaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aataataaat accaaataat 120

taaaaaaaaa acataactaa aaacacaaac aaccactccc tccacaacac cttcaacacc 180

tacaattaac tcctccactc caatatcatc ctcgatcggg aaaccacag tttcccaaa 240

ttcaacttca tcaccttcta caccacgag gcaatcccga acaccatcta aaacatcaac 300

tgcaaggaac tttacaacct taacatcacc ttcaa 335

<210> 11273

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-F7

<400> 11273

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accantagat gatggaaatg gaaaagaagt agcaactgaa attgttacia acatgggttac 120

aaacaaaaca ttctacactg attccagtgg acgtgatctc atcaaaagga taagagatta 180

tcgatcggag tggaagattg aagtgcacca gcctattgct ggaaactatt atcctgttaa 240

tcttggcatc tatgtggagg atggcagcaa agagctgtct gtactggtag acaggtcaat 300

tggaggttcc agtataaagg atggacaaat agagctaatt ctacacagga ggctactcca 360

tgatgatggg aaaggcgtcg ccgaggcgct aatgaaaca gtctgtctcg ataagcaatg 420

tg 422

<210> 11274

<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-G1  
  
 <400> 11274  
  
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 ctgacgtgat tctccaaatc ccataccacg atcttaccat ccaatcctga tgtgctgaat 180  
 cgtttgatac taccgtcgct tacttttctc aagggtacaa tacacgttat gcaattctca 240  
 tgggccccgc cagcaggttt tgatggttca acggtatcac tactagtccc ttgctttgat 300  
 tggccgtata gctttccaag ggcttcagag agctgcgagg cttttgaagc tgatggggca 360  
 gctgtcctgt agtgcaagaa tcttatgaga gtccaaagcc cagtatcatc agcagcacag 420  
 atcatagga 429

<210> 11275  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-G10  
  
 <400> 11275  
  
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 acagttactt aatccattgg cagtggctaa ccattgggtc gctaccttcc tgcagcagca 180  
 acaacaattg ctgccatata accagttctc tttgatgaac cctgccttgc agcaacccat 240  
 cgttggaggt gccatctttt agattacata tgagatgtac tcgacaatgg tgccctcata 300  
 ccgacatgtg tttcctagaa ataatcaata tattgattga gatttatctc gataaaaaaa 360  
 aaatacatgc 370

<210> 11276  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-G11

<400> 11276

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aggaagacaa ccggcgacgc ggggggaaca tggggaagac gccggtgcgg atgaaggcgg 120  
tcgtgtacgc gctgtcgccc ttccagcaga aggtaatgcc ggggctgtgg aaggacatca 180  
ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctccacccc 240  
ccgtcgtcgg cacctaccaa tacgccatgt ggtacaagga gcaggagaag ctttcccaca 300  
gatattaaat gcgctgccct tcacagacag cacttgatt taacatttgt ttgatcaatt 360  
tcagttcaac gccttttcat cgttccatat gcatgtatg 399

<210> 11277

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E7

<400> 11277

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cgaccgtagc ggctacgctg gcgcatgagt tgtcttgac ccgtgactgc ttggaggacc 120  
cccgtgccc tgccggccgc tcccggcgcc cgtgtcccat cgctcgtgcg ggcaccccgt 180  
gcctgctgcg ttgagaagtg cttgctgtgt gctaccgctc ccacgggaag ccgtgctcga 240  
tacacgttgc ctctcgtcag ctacaccccc ggggtgcggc tcgtcggctc gagagcgccc 300  
gcggcgtttg cctcgtgccg ccgtcggcct atggccggcg gcaccgagga cacctcgtcg 360  
gcgcttttgg tctcggatgt ggctcacgct gaaggccgga gacgcgttgg cgtcacgcg 419

<210> 11278

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-G2

<400> 11278

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tcatatataag tcagccaaca ccatgtatat aaggatgggt tgcatacatat ggtgatcgcc 120  
aatgcgcatac aagttctctc atcccttgcc agaccatgct tatttccatt gcacaatcat 180  
caagctctgc atcaacttgt tgaggataat aatgaaataa tacatggtgc cattacatgg 240  
caacattttt ctgtcactag tatgaggcac taggctaaat gtactgacga ctggaattcg 300  
aatatgtatg cttttgcaat cggacaccta aataccttga gcttatactc gttacctaaa 360  
tatgtctact gtcatcttag attgttcgaa aatgtcatgc attacatg 408

<210> 11279

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D12

<400> 11279

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tctgtgttta taaaaatgaa gaaaccatct gctgccattc gtgatgtcaa tgctgctcta 120  
cacatcaacc catactctgc aaaatgctat aaaactcgtg gaatggcata tgccatgctt 180  
gtcaaattggg aggaagctgc tcatgatctg cacacagcat ctaacatgga ttacgactag 240  
gagatcaatg c 251

<210> 11280

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-D3

<400> 11280

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gaggatttga ctggcattct ggagtcagtt ggctgtgaag ttgacaatga aaggatggaa 180  
ctgctgctgt cccaactgag cggtaaggac atcaccgagc tcattgccgc gggcagagag 240  
aagtttgctt cagtcccatg tggcggcggc agtgtggctg ttgcggcagg tgcacctgct 300

gctggcggag ctgctcctgc agctgacgca aagaaagaag agaaggtgga agagaacgaa 360  
gaaagcgatg atgatatggg cttcagcctc ttcgactagg ttgcacagtc atcacagtat 420  
tgtttcgggc a 431

<210> 11281  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-029-Q1-K1-D4  
<400> 11281

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ccgtcaatgc tcacaagctc ctatagcttt ccttcttccc ccataccttc catcaatgat 120  
agcttcagta tgtgaaaacc cagctcttca accctatagg ctccaacaag caatcgcagc 180  
aagcaacata cctttatcac ccttgtttca acaatcgcca gccctatctt tgggtgcagtc 240  
attggtacaa accatcaggg cacagcagct gcagcaactc gtgctacctg tgatcaacca 300  
agtagctctg gcaaaccctt ctcctactc tcagcaacaa caatttcttc cattcaacca 360  
actgtctaca ttgaaccgtg ctgcttattt gcagcaacaa ctattaccat tcagccagct 420  
agctactgnc tactc 435

<210> 11282  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-029-Q1-K1-D5  
<400> 11282

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aatcacttat taaccggtta cgagtaatat tgtgtggagc agtaccacag tgattcaagc 180  
cttcctcggt attgatgatg aagaggatga gacctttatc atacaattgc tatgcgagtc 240  
agtgcaactt acttaggtcg acaatcagct cacgtgcata gtatgcacca taatgacatg 300  
agtcctgatc ctgcacgaac agcacttgaa cctggagcgt tagatcgcaa caaccaccat 360

gacaggtgag tgctgactca agaaggggtcc gctaaggctc caaactgctg aagatcgac 419

<210> 11283  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D7

<400> 11283

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aaaaaaaaata aaaaaaaaaa aacaaaaaaa taaaaaaacc taaacataaa aaaactgtcc 120  
gtcctttttac agcatcctac ctctctaccc ccttcatgca acccaattaa ttttctttac 180  
tgcccccttaa cttaatttaa ctctccgtct tttcccaaca tctccactcg aaaaacctct 240  
cccttcccca atttaatctc tttgcaaaac atcccccttt ctccagcttt ccaattagca 300  
aagaggcctt aacctatcac ccttccca 328

<210> 11284  
<211> 204  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D8

<400> 11284

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aaataattaa cccaacccaa aacaaacaca aaaaaaaaaa aaaacaacaa aaaaacacaa 120  
acaaaaaaaa aaactcaaaa aacaaaacac aaaaaaaaaa cacaaaacaa aaaccaaaaaa 180  
aaaaaaaaaa aaaacaaaca aaaa 204

<210> 11285  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E1

<400> 11285

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 gcttcagtat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc cttgttgtgt caacaatcgc cagccctatc tttggtgcag 300  
 tcattggtac aaaccatcag ggacacaacag ctgcagcaac tcgtgctacc tgtgatcaac 360  
 caagtagctc tggcaaacct ttctccctac tctccgcaac aacaatttct tccattcaac 420  
 caactgtcta cac 433

<210> 11286  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-E11  
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 agctcttcaa ccatataggc ttcaacaagc aatcgagca agcaacatac ctttatcgcc 180  
 cttgttgtgt caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag 240  
 ggacacaacag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc tggcaaacct 300  
 ttctccctac ttttcgcaac aacaatttct tccattcaac caactgtcta cactgaaccc 360  
 tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg cctactctca 420  
 acaacaac 428

<210> 11287  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-E12  
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 ggtgtgccac ggacgaccac tccctccaca acgccttcag cacctacggc gaggtcctcg 120

agccaagat catcctcgat cgggagacgc acaggtcccg cggcttcggc ttogtcacct 180  
tctccacgga ggaagcgatg cggaaacgcca tcgacggcat gaacggcaag gagctggacg 240  
gccgcaacat caccgtcaac gagggcccagt cccgcggcgg ccgtggatgc cggggccgcg 300  
ggtactgtgg cggccgtaga agcggccgat acagcagccg tcggcgccgt caaggccgt 359

<210> 11288

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E2

<400> 11288

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caccacaatt ttccctcaat gtcacaagc tcctataact tccctttttc ccccatacct 180  
tccatcaatt ataactacaa tatcttaaaa cccaactctt caaccatata cgcttcaaca 240  
aacaatctca actaacaaca tacctttata ccccttaata tatcaacaat cacctacct 300  
atcttttata caatcattga tacaacccat catatcacia caactacaac aactoctact 360  
accctttatc aaccaattaa ctctcacaaa actttctacc 400

<210> 11289

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-029-Q1-K1-E3

<400> 11289

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ggggcctcgc ctggggccacg gacgaccact cctccacaa cgccttcagc acctacggcg 180  
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agctggacgg ncgcaacatc accgtcaacg aggccagtc ccgcggcggc cgtggaggcg 360  
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<213> Zea mays  
  
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gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatccccg cgtactgccg 300  
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389

<210> 11292

<211> 383

<212> DNA

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<223> Clone ID: LIB3059-029-Q1-K1-D11

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gcttggcacg gttccagcac cggctcaaag agcaagagat ccttagccgc aagaaacctc 180

ccagatagta tgatgatcag caatgactct gtccttggtc cttgtaatat gattgcttgg 240

agctcagttg tgggtccatca gctgtttttt acgtgtgcgc tccagtaaata tctatagccc 300

caagcaggcc aagacatgtg ggagtggctt aaggcggctt tgatgccgag ggcgtgggtcc 360

tggttgatat cacctgacac ttt 383

<210> 11293

<211> 434

<212> DNA

<213> Zea mays

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cgacgaggat ccgtccgagg cagccgtttc ctccgagggc gcacaggcgc caccgcccgc 180

tctgtcggc tcgcccgtcc gcgtgcccc ggctccgagg tccaaagtgc tggagcagga 240

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gggcaccccg cgctcctcgc cgggtcccg catcaaggtc tgggaccct gccacgttct 360

cctgcccccg ncnncnncgt ctccgcacgc agggaggcag gttgacgcc cggccatcga 420

ggtcgttgtg gtca 434

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 <212> DNA  
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<223> Clone ID: LIB3059-029-Q1-K1-B8

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actattacca tttagccagc tagctactgc ctactctcag caacaacaac ttcttccatt 180
taaccaattg gccgcactga acccgctgc ttatttgcag cagcaaatac tactaccatt 240
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ctaccagcag tttgctgcta acccgcaac cctcttataa ctacaacaat tgttgccctt 360
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cctctt 426
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<223> Clone ID: LIB3059-029-Q1-K1-C1

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ttttgagtgt ggaaatggat ggtactcttc gccatgaatt tgctggctac tttatacatt 180
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<223> unsure at all n locations

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attgttggca caaaacatca gggcacaaca actacaaca ctcgtgctag caaaccttgc 180  
tgcctactct cagcaacagc agttttctgcc attcaaccaa ctagctgcat tgaactctgc 240  
tgcttatttg caacaacaac aactactacc attcagccag ctagctgctg cctaccacca 300  
gcaatttctt ccattcaacc aactggcagc attgaactct tctgcttatg tacaacaaca 360  
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<210> 11297  
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<212> DNA  
<213> Zea mays  
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cggctgtggc tgccagacac caccgtttca tctaccgcct ccgttctata tgccgcctcc 180  
gttctatctg ccgcgcgagc agcagccgca gccatggcaa taccctactc aaccaccgca 240  
gctaagcccg tgccagcagt tcggatcctg cggcgctcggc agcgtcggca gcccgttcct 300  
gggccagtgc gtcgagttcc tgaggcacca gtgcagcccg gcggcgacgc cctacggctc 360  
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<210> 11298  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgcagatgcc ctgcccctgc gcggggctgc agggcttgta cggcgtggc gccggcctga 180  
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 <212> DNA  
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<223> Clone ID: LIB3059-029-Q1-K1-C4

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 gcaccaaaga tcgctatctt cactacactg gatcacttag ttcttgtcta atacgactta 180  
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 <212> DNA  
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<223> Clone ID: LIB3059-029-Q1-K1-C5

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 caagtgcgtc gcgccgttcc cgcaaggctg cttctactcc aacgccctcg gagggctcaa 240  
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cggtgccact ttcaaggtag tggaagggtc tactgtcctg acggcgctgc actgatctat 360  
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<210> 11301  
<211> 432  
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<223> Clone ID: LIB3059-029-Q1-K1-C6  
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<210> 11302  
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<212> DNA  
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gaggtgagca cgtgcgagta cgaggacgtg cacgtgatgt gggagatgct gagccgcacc 240  
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ccgcggccgt gggcgacag gttccgctc tgccgaggct tctagtagac caaggccgcc 360



gccgcgcgcg ccgcgcgcgn cgnccgncgnc ggcgncgcgc gtgtcagctc cgctgctgtt 420  
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<211> 299  
<212> DNA  
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<223> Clone ID: LIB3059-029-Q1-K1-C9

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acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa gatcatcctc gatcgggaga 240  
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<210> 11304  
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<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D1

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<210> 11306

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D10

<400> 11306

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aagcaacata cttttatcac ctttgattca acaatcgcca gccctatctt tgggtgcagtc 300  
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<210> 11307

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H8

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<210> 11308

<211> 394

<212> DNA

<213> Zea mays

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<210> 11309

<211> 433

<212> DNA

<213> Zea mays

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<210> 11311  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A11

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<210> 11314  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A4

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<210> 11315

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A5

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agcattgtca cattcaacta cgatatgcat tgctcaacat aactttgcta agtagtacac 180  
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<210> 11316

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-A6

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ccggcctcag cctcatcccc agccacaccc atgcccggtgc caacagccgc atccaagccc 300  
gtgccagctg cagggaacct gcggcggttg cagcaccgcc atcctgggcc agtgcgtcga 360  
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ggtgacattg ctctgacgt acgctcacgt cctgagtcta caaacacta taccttg 177

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<212> DNA  
<213> Zea mays  
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ctgtgaggag gtgategtct agatcgtcta gacctttgac atttccttgg ttctttcgat 180  
tctaagatat aagatttcta gcctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
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ggggcgactc ctatta 316

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<211> 333

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-A9  
  
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 gaagaagttt gctgataatg aagatctgca ttcagagtgg cgtgctgcta agaaggctaa 180  
 caaaatgaag gttgtttctc ttataaggga gaagacagga tatattgtca gtccagatgc 240  
 aatgtttgat gtgcaggatga aaaggatata tgaatataag cggcagctgc taaatatacct 300  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgtgtcgtcc atccccaagg gccgtgctc cgaaggggag tctgattctg atagtgaagc 180  
 atcagatgtt agtggctctg atggagaaga cacctcgtgg atttcatgtt attgcaactt 240  
 aagaggggaat gagttcttct gtgaagtcga tgatgactac attcaagacg acttcaacct 300  
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 <213> Zea mays  
  
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gttaatccct gagggagtca gacaaagctc cctatgtagc caaagctaac aagctcaagc 120  
tcgagtacaa caaggccatc actgcctaca acaagggcga gagcactgca gctaagaagg 180  
ctcctgccaa ggaggaagaa gaggaagatg aacacgaata tttcaagacc aaa 233

<210> 11322

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B12

<400> 11322

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gcggctgtgg ctgccagaca ccaccgtttc atctaccgcc tccgttctat atgccgcctc 180  
cgttctatct gccgccgcag cagcagccgc agccatggca atacccact caaccacgc 240  
agctaagccc gtgccagcag ttcggatcct gcggcgctcg cagcgtcggc agcccgttcc 300  
tgggccagtg cgtcgagttc ctgaggcacc agtgcagccc ggcggcgacg ccctacggct 360  
cgccacagtg ccaggcgctg cagcagcagt 390

<210> 11323

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B2

<400> 11323

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cctccaggat gagtacaaga ttgctggtat tggaactgta ccgggtggcc gagtggaaac 180  
tgtagtaatc aagcctgtta tggtaatcac ctttggtcca actggactga ctaccgacgt 240  
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gcttgaacct gaagaat 317

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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-B4  
  
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 tcgaggtgcc catgccaaact ggtcgcgctg cttcaaaccg gactccgtac tccaagacga 180  
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 <211> 376  
 <212> DNA  
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 gtgagccgat gtatgtcgct ctcggtcgac tcgattaatt attttgaatg gatgtgtgta 180  
 aaatgtttcg gttatgcgca ttggtaggat cgcgtttgct attggagaac aagagattat 240  
 ttgatgtgtg cgaattgtag tgagtctaata taggttttga tcgatgaagt gcacgtgtga 300  
 ttatgtgtgt gaaaaaaaaa aaaacataat acatcgcaat gaaatgagct acaggacatg 360  
 aaaaaaaaaa gggcgg 376

<210> 11326  
 <211> 383  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-G10  
  
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 agtggaaatgc ctacatttgc ccttcctggt cactgatggg gggtagggtt tgactatcgg 180  
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 aagatgggtg atattgtgca cacactgaca aataggaggt ggtagagaa gtgtgtaact 300  
 tatgctgaaa gtcgatgaca agcattagtc ggcgacaaga ctattgcgtt ttggttgatg 360  
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<210> 11327  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G12  
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 gaccagcttt gagatcgca tggctgacgg ccgctgctgc accttactgg agatcctctt 180  
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 ctgcatatgc ctgctgctca caatccttgg atactaacgc ggaatcatct acgcgatcta 300  
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 catc 364

<210> 11328  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G2  
 <400> 11328

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 gacaaaaaca agtacaacac acccaaatac agatttgttg tgcgatttac caacaaggac 120  
 atcactgccc aaatcatatc tgctagtata gggggtgata tggttcttgc ttctgcctac 180

tcgcatgagt tgccacgata tggctcttgaa gttgggtctga ccaactatgc agctgcctac 240  
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 gagggcaatg ttgaggccac tggtagaggac ttctct 336

<210> 11329  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G3  
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 taaaccgaag aaacagaaaa aaggcttatg gggccgctaa gcttaagaag acgaagagta 180  
 taaggccaac ttaggattct gcgaccggaa atgggtgaaa tgctaagtgg aaactttaaa 240  
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<210> 11330  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G4  
 <400> 11330

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 aagcaatgga aaaaaaaatc tactatgcgt gtatcagtac ccacgtctg agtcactggt 180  
 actgatttgc cttgcaaaat agaataaaac t 211

<210> 11331  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-G6  
 <400> 11331

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ttccctcaat gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg 180  
atagcttcag tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca 240  
gcaagcaaca tacctttatc acccttggtg ttccaacaat cgccagccct atctttggtg 300  
cagtcattgg taaaacat cagggcacag cagctgcagc aactcgtgct acctgtgatc 360  
aaccaagtag ctctggcaaa cctttcttcc tactctcagc aaccacaatt tc 412

<210> 11332  
<211> 118  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-028-Q1-K1-H1

<400> 11332  
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<210> 11333  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-028-Q1-K1-H12

<400> 11333  
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aggcgaagaa gtagtaaaat ataaaggacc tagggatgtg gaatcgctga agaacttcgt 180  
gttgaatgaa gctgagaaag caggcgaggc aaagcttgaa gctgattgag gcaggggagt 240  
ttcagcaagc atgtggcgag tggcgtagac aaggaacaat gctttgcaac attgtcttct 300  
atcctgtcat ttacaaagcc agtttacagg aaagaaatga ctttatgagc tcgtatcaga 360  
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<210> 11334

<211> 350  
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 <213> Zea mays  
  
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 cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240  
 ctctgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300  
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<210> 11335  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-H3  
  
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 catgttacat tcagtaagcc agaatacctc caagattcag atattgtaat gaacagattc 180  
 cataaacaga gacctgttta tggaggttgg gaacaacacc ttggattgga gcatacagcc 240  
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 gtgaggattt acaactaaag ctaggaatac tttttacatg cgatgaatga tgaacaggat 360  
 atgaagcagt cttgttccaa aagcagtctt ttggtgatgt acatggagct tt 412

<210> 11336  
 <211> 183  
 <212> DNA  
 <213> Zea mays  
  
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 atg 183

<210> 11337  
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 <223> Clone ID: LIB3059-028-Q1-K1-E5  
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 gttgcccttt tagtgagcgc gataaatgcc tacattatct cacattgctc actcagctcc 180  
 tacagccatt attgcacaga tacttcaaca acttacttca atgacctact agcatccaca 240  
 cgcgctagcc tacaggctac tacttgcact tgcctcgagc gccttacaat agccagtcgt 300  
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 <211> 437  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-E7  
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 cgactaggct ggcaagagcc atggtgacca agtatggtat gagtaagcgt gtgggtcttg 180  
 tttcctacag tgagaatagt gttagcggcc aaacaagtgt gattgataag gaggtgaagg 240  
 aaattctgga gaaggcgtac aataacgcaa aggcaattct gacaactcac gataaggagc 300  
 ttcatatgct agcgaacgcc cttcttgagc atgagacact gtctggagcg cagatcaaga 360

aattactgcc acaggtggac aatagtaaca ataagcagaa gaaggctgcc aaggtgccgc 420  
agaagacacc ggcagcc 437

<210> 11339  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E8

<400> 11339

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atcatttctg cgcggtgatg ttatttcttc gttctcgtta attatttggg aagagtcag 300  
ttcttctoga cattcctata tattgttgac atccatatgc tgggtactata tatgtcaaag 360  
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<210> 11340  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tgatcgaggg ctgctcgagc agcccgtcgg cgcacgacga catcaactcg ttcctgctag 180  
acgatgactt cagcataccg ttctccgtgg atgacttcac gaagctgata gtgcacgtcg 240  
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tgggacattg aggagtgaca atatgcacgc cttttttgtg tgtgttgccg tgatgtgcat 360  
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<210> 11341  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11341

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cacaccgtgc accatgttct tagttntggg agaattcttt gtcttaaagc tgactggaaa 180
cctcagctta gggggccctga tgctcgggga atcaagggaa atatggcaca actattgtcc 240
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attgcaaatt gaatgagggt cataaccagg tgggggttgc catctatttg cacctttttt 360
aattgatcag attgcccact aaaatttgtt tgcaatctaa atgggaccac aacgaaacga 420
attctaact 429
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<210> 11342  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F10

<400> 11342

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tatccatggg ttgatgacca tggatgaagaa aatgccaaaa ccatctatcc tgggtggtcta 180
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acagttaata gcatcttctg ttttacttgc tgcactatcc gtgtcacctt atgacaaaaa 360
atatggtgca tttgagacag agaatgagaa agagcgcaac atgcgtc 407
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 <211> 393  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-F12

<400> 11343

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gatggcatgc aagccctgcc tcgagaccgg ccgacgcgcc atggaccgcg cgctcgaccc 180

caaccacgac ccggactccc ccaccaacgc cgccggcgcc tccgccaacg agccgctcct 240

cgccgacctc tccgcctcca ccgcgccacc cgcaaaggcc atctgaatct catcacctcc 300

cagagcgagc cagaggcgga ccaccctttt cccctcgcct tgtaatcttg cttctttcta 360

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<210> 11344

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F2

<400> 11344

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ctttatgagc tctggaaaac tggcagatat agaaattatc cacctgagct gttggtggat 180

attgtggcaa gaattctgtc tttggtacca ccttggacac gagtgtatcg ggtccagaga 240

gatattccta tgctcttctg tacttctggt gtcgagaaag gtaaccttcg cgagcttgct 300

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<210> 11345

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11345

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ccggtccttc aaggctatgc caaagctcca ctattacgac tctggagaga acttaatgag 180

agagtttgcc ttcaatcatc catgaaacac tgaaagctgt tgttgctcaa tataatgcta 240

gtcagctgat cacacagaga gagactgtga gtagggagat taggaagata ctgactgaga 300

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<210> 11346

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F4

<400> 11346

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cgttgttcct ccaacaaccg tcagccctat tacagcagtt acctttggtg catttggttg 120

cacaaaacat caaggcacia caactacaac aacttggtgct aggaaacctt gctgcctact 180

ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240

tgcaacaaca actaccattc agtcagctag ctgctgccta ccccagcaa tttcttccat 300

tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccaccat 360

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<210> 11347

<211> 195

<212> DNA

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<223> Clone ID: LIB3059-028-Q1-K1-F5

<400> 11347

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aacaacatca acaaccaccc acatacaaac tacaaccata tcaaaccat actcccatat 180  
 atacacaaca acaca 195

<210> 11348  
 <211> 114  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-F6  
 <400> 11348

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-F7  
 <400> 11349

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 gtggcatagg gacctgtgca gggctctgtga aaacatcccc attgtcctct gcggttaataa 180  
 ggttgatgtg aagaacaggc aggtcaaagc caagcaggtt actttccaca ggaagaagaa 240  
 tctgcagtac tatgaaatth ctgccaagag caactacaac ttgagaaac ctttctctgta 300  
 ccttgcaagg aagctggctg gtgatccgaa ccttcacttt gttgaagctg ttgctcttaa 360  
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<210> 11350  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-028-Q1-K1-F8  
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ccggtgaaag tgaactgcgt gcacaccctg cacgagccga ccaaaccgg caagcccttc 240  
agtatcaaga tcaacgctgc tactgatgaa cccatcgcca acggcaagct ggatattgac 300  
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<210> 11351  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F9

<400> 11351

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aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggcacc ctcttacaac 180  
tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cctagcagtg ttctaccaac 240  
aaccatcat tgggtggcgcc ctctttttaga tttcttatga gttatagttc aataataaag 300  
ttttttgtct gatgtttgtg gcttcccaga aataagaaag tacatttct 349

<210> 11352  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E4

<400> 11352

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tatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 120  
agctcctata gcttcccttc tttccccata cttccatca attatagctt caatatgtga 180  
aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 240  
atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tgggtacaaac 300  
catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagc 354

<210> 11353  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-C8  
  
 <400> 11353  
  
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 agctcctata gcttcccttc ttccccgta cctctcacca gcagttgtct tcggtatgtg 180  
 aaaacccaat tcttcaacc tacaggatcc aacaggcaat cgcagctggc atcttacctt 240  
 tatcacctt gttcctccaa caatcatcag ccctattaca gcagttacct ttggtgcatt 300  
 tattggcaca aaacatcagg gcacagcaac tacaacaact tgtgctagca aacgttgctg 360  
 cctactctca gcaac 375

<210> 11354  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-C9  
  
 <400> 11354  
  
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 ccacgtcac atcgctcgcg tccgatcccg tgagaagcgc agggaccgca agccgccgga 180  
 gcgcttcagg cgcagggagg ataggcctgc tgggtggacaa ggaggcccc gccttggtcc 240  
 tgggtgtgct gctccagctc cagctccagc acctgttgct gctcgcccat aggttttagc 300  
 ttttcgaccg tgttaagtct tctgcccact cagtttcgga attgtcgctt atgggtgtgt 360  
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<210> 11355  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D10

<400> 11355

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ccgcaggcct ccttcgccgg cgacatccgg ggactccaca tcggccgcct ctgctcctcc 180  
ccttccccag cctccgcctc gtccaaggca ggggtcacct tcacgggtggg gtaccacgag 240  
ctcgccggca caaagggtgac gctcaagaag cccctgctgg tgctcaggaa gaagaaggtt 300  
aatgctggtg ctgaggaaga agagccaccg acggcggcgg aggtggagct ggaggtgatc 360  
ggcatcatcc ggcacaagat cctattcaag ggaccgcc 398

<210> 11356

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D12

<400> 11356

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gccgccgctc catcccgtaa cgcgacacca tgagggagtg catttcgatc cacatcggcc 120  
aggccggtat ccaggtcgga aacgcgtgct gggagctgta ctgccttgag catggcattc 180  
aggctgacgg tcagatgccc ggtgacaaga ccattggggg aggtgatgat gctttcaaca 240  
ccttcttcag tgagactggt gctgggaagc acgtgccccg tgctgttttt gttgaccttg 300  
aaccactgt catcgatgag gtgaggactg gcacctaccg ccagctcttc caccctgagc 360  
agctcatcag tgggaaggag gatgcagcca acaactttgc ccgtggtcac tacacc 416

<210> 11357

<211> 219

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-D3

<400> 11357

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tcggtcaact tttctaactt gtttgaacaa gttaaattgc ccagatattt tggtttggtc 120  
cattccagct caagaattca aagctaagca ttgcacaatt atgctngntt tgttggaag 180  
tttttgaggt taattcatat cttaagcntg agtttgctt 219

<210> 11358

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D4

<400> 11358

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cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggtg tcttcagtat 180  
gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgagca ggcattctac 240  
ctttatcacc cttgttcctc caacaaccgt cagccctatt acagcagtta cttttggtgc 300  
atttgttggc acaaaacatc aaggcacaac aactacaaca acttgtgcta agaaaccttg 360  
ctgcctactc tcagcaacag cagtttcttc cattcaacca actggctgca ttgaactctg 420  
cttgctattt gcaacaacaa c 441

<210> 11359

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D6

<400> 11359

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atggattttg atctgatatc aaaatccatc gataaggcaa agaacttggt tgaggaagga 180  
ggcgattggg agaggaagaa caggttgaaa gtatatgaag gcttgtactg catggcaacc 240  
agaaacttca agaaagctgc cagcttattt ttagactcga tttcgacttt cacaacttat 300  
gagatattcc catatgatac gttcatcttc tatacagtcc tcacaagtgt catcacattg 360



gatcgtgtat ctctgaaa

378

<210> 11360

<211> 437

<212> DNA

<213> Zea mays

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<400> 11360

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cggaggatgc caagggctct ttcttgagca agagcgaggt cactgaacgc atcatcaagg 180  
tcgtcaagag cttcccgaag atcgatgacc cctccaaggt gacaccagat gccatttca 240  
agaatgatct tggcctagac agtttgtagt cagtggaggt tgtcatggcc ctggaagagg 300  
aattcagatt cgagatacct gacaatgaag ctgacaagat tgactccgtc aaagttgcag 360  
ttgacttcat tgccctcacac ccgcaagcga aatgataaag atgcgttgcc tggatatagca 420  
aagctatata gtcatta 437

<210> 11361

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-D9

<400> 11361

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cgctcctata gctatcatta atgcggcata cgttccatac attatagctc caatatgtga 180  
aaaccagat attcaaccat atctgcttca acacgcactc gccataagca gcatacctaa 240  
atcgcccttg tggacacaac atttgtcaat cctatcttta gcgcatgcat cggaacatac 300  
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caaacctttc tacatactgt cagcaacgac 390

<210> 11362  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-E10  
  
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 aaggctgata tatgctgggt agcagcttgc tgatgacaag accgcaatgg actacaacat 120  
 cgaggggtgga tctgctatac atcttggtact tactgtgagg ggtggacact agtctaaacc 180  
 tgatgaacta tcaataagat aaactgttgt gttggctgcg aaatgtgcac gcctgatgat 240  
 gaacttgcaa ggagataata acaaagtatc agatttgctc atgttcccaa tggaaggggc 300  
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<210> 11363  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-E12  
  
 <400> 11363  
  
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 caccctcgtc acggaggccg agtgcaacct ggccaccatc agcggcgtcg ccgaatgccc 240  
 ctggattctc ggcggcggaa cgatgccttc caagtaactg cgaagagcat agtgcagatg 300  
 gaatgagctt gtagctagct catatgtctg aataataagc acagcaagaa gatgaatgca 360  
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<210> 11364  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-E2

<400> 11364

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tgtaccagct ctgactcagc tagttgtggc aaaccttgct gcctacttgc aacagctgct  180
tccattcaac caactgacta tgtcgaactc tgctgcgtac ctacaacagc gacaacagtt  240
acttaatcca ctagcagtgg ctaacccatt ggctcgtgcc ttcttacagc agcaacaatt  300
gctgccatac aaccagttct ctttgataaa ccctgtcttg tcgaggcagc aaccatcgt  360
tggagggtgcc atcttttaga ttacatatga gatgtactcg ataatg                    406

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<210> 11365  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-E3

<400> 11365

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tagtgagcgc aacaaatgcg ttcattatct cacagtgtc acttgctcct agtgccagta  180
ttccacagtt cctcccacca gttacttcaa tgggctttga acatccagcc gtgcaagcct  240
acaggctaca actagcgctt gcggcgagcg ccttacaaca accaattgcc caattgcaac  300
aacaatcctt ggcacatcta accctacaaa ccattgcaac gcaacaacaa caacaacagt  360
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tgc                                                              423

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<210> 11366  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C7

<400> 11366

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tatcgttttc tgtaatgttc gtaaataaggc tcttcgtcgc cttgttgtct gactgctaca 120  
 ttgtcaatat ttcaaacat acgtatttga atcaaatgtc tggattgggtt atgcctaaaa 180  
 aaaaaataac ttaattggat acgaacacat aaataaaaaa aaaaaaatac aacaactaaa 240  
 aacttaaaaa aataatatta caacaacaaa aaaaaacaat tacaacaact ataaataaac 300  
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<210> 11367

<211> 380

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3059-028-Q1-K1-B12

<400> 11367

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 actcgagtga ggggcagtaa agccggtttt atgtgcctag aaactagtag ctagtgtttg 180  
 ctgctgtcga atgacactat gcaatgtgat ctggaacctg gtttcttggg tgcgacgctt 240  
 gttatgactg tcgtcagtaa aatttggggg ctccccgtat gagatgctgc cgggcaaggc 300  
 ctcggtgtcc cacctcgttt gtggcgnggg gcgctggagc ccggtctggt tgggttggga 360  
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<210> 11368

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B2

<400> 11368

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 ttgcctggag ctgcaatcta tggcacttca actaggagat ttggaggttt ggagtttcag 180  
 caacataaag ttaatcacat ctcatcttggc cggaaagcgt ctgttaaagc aacattgaaa 240

actgtgagat gcaatgccac tcaaacacaa agcgtccaaa agaaatcttc aagtgcaact 300  
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<210> 11369

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B3

<400> 11369

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 caagtgtggg aaaggcaaag tgtggcttga cccaatgaa gttagtgaga tctccatggc 180  
 gaactcccgc cataacatcc ggaagttggt taaggatggg tttatcatca agaagcctca 240  
 gaaaatccac tctagatctc gtgcaagaag ggcgcacgag gctaagcaga agggacggca 300  
 ctcaggatat gggaagcgta gaggtaccag ggaggctagg ctccccacca aggtactgtg 360  
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<210> 11370

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-B4

<400> 11370

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 tggctcgacga cagtgttata cttgtttaca gacaaatacc ttgctggaag tcttagaggg 180  
 attgtctatt ccaggagtgc gacggcttgt tggtattgaa caaagtacca gatttgtgga 240  
 aggaatcatc tcattgagag acatatttac atttctcctt ggatagcatc tgtgtagcca 300  
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<210> 11371  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B6  
  
 <400> 11371  
  
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 caagctccta tagcttcctt tcttcccccg tacctctcac cagcgggtgc ttcggtatgt 180  
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcacagctgg catcttacct 240  
 ttatcacctt tggtctcca acaatcatca gccctattac atcagttacc tttggtgcat 300  
 ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 360  
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<210> 11372  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-028-Q1-K1-B8  
  
 <400> 11372  
  
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 ggcgctgct tcgccccgga caccgtcaag gccactgct cctacgccgc caacagcttc 180  
 taccagcgca acggccagaa cgcgcaggcc tgcgtcttct ccggcacagc cgcgctcagc 240  
 aacgtcgacc cgagcgccaa tggctgcacg taccctgcga cccaagtgc tgctgcaacg 300  
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<210> 11373  
 <211> 415  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B9

<400> 11373

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ttagaacaac caattgccca attacaacaa caatccttgg cacatctaac catacaaacc 180

atcgcaacgc agcagcaaca agcactgagc cacctagccg tggatgaaccc tatcgcttac 240

ttgcaacaac agctgcttgc atccaaccca cttgcttttg caaacgtagc tgcataccaa 300

caacaacaac agttgcaaca gtttctacca gcgctcagtc aactagccat ggtgaaccct 360

atcgcttacc tacaacagca acaacttctt tcctctagcc cgctcgctat gggca 415

<210> 11374

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C11

<400> 11374

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<210> 11375

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-C2

<400> 11375

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tgatgttccc agctaataca aagggtccctc cttcggtatgc ttgctgtggt gtcatacaaga 180

aggcaaacgt ttcttgcttg tgctccaagg tcaccaaaga aactgagaag gttgtgtgca 240

tggagaagggt tgtgtatgtt gctgagcagc gtaagaggcc atttgagcat ggcttccagt 300

gcggaagcta caaggttcca gcaaactgat gatatcacia gaggaagcg cttgacgtag 360  
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<210> 11376  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gccagtcctt ggccggccggc ccaaactggg tgtgggaaaa ggcagaaaag gctttgggtcg 120  
atatgggtag aatcccatgg ctatgcctat gccgtgatgc catcggccaa aggtcttgtg 180  
ccagagactc accncactt catcggcacc tactggggcg ccgtcagcac cgncttctgt 240  
gctggagattg ttgagtcgc agatgcctac ctctttgcag gccccatttt caatgactac 300  
agctctgttg gctactcatt cctcctcaag aaggaaaagg ccatcatcgt ccagcctgaa 360  
cgtgtgataa tgggggaatg ggccggcatt cggatgtgtg atgatg 406

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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgcgttcatt attccacaat gtcacttgc tcctagtgc attattccac agttcctccc 180  
accagttact tcaatgggct tcgaacacct agctgtgcaa gccaacatgc aacaacaagc 240  
gcttgccggc agcgtcttac aacaaccaat tgcccaattg caacaacaat ccttgccaca 300  
tctaacaata caagccatca caacgcaaca gcaacaacag ttctaccag cactgagcca 360



cctagccatg gtgaaccctg ccgnectactt gcaagagcag ctgcttgcac ccaacccact 420  
tgctctggcg aacgtagttg ca 442

<210> 11378

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-C6

<400> 11378

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aaaacttggc cctgggtgagg atcctccggc cattccaagc cgaagaccaa gcaacattgg 180  
tccattgtct gcctcaagcc cggaaatgat caccttagct tcaacaccag cacctgtatt 240  
ggctgctgca gctgcagtc tttccaaaga gaactccttt cctgctttgg cagcccctca 300  
gaccagtaag cgcgccatat caaaagcatg tggtagctct gcccatatta acaacaaatc 360  
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<210> 11379

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-B10

<400> 11379

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tcagggcgac gaggatcaag cttacaggaa aatcaggctc cgtgctgaag atgtgcaggg 180  
caggaatgtg ctacaaaact tttgggggat gaattttacc actgataaat tgaggtcctt 240  
agtgaagaag tggcagacat taatogaagc ccatgttgat gtcaagacaa ccgacaacta 300  
catgttgctg tttgtctgca tcggcttcac caagaggcgc ccaaaccagg tcaagagAAC 360  
ctgctatgct caggcatccc agatccgtca gatccgccgt aagatgggtg a 411

<210> 11380  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-H5  
  
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 catggatcag atgaataagg ttgattgccc aaatccgacc gatcatgctg cactttgatc 180  
 ctgtcgctct acagcagaac gttcccaatg actgggacca ggcggtcctg aatctgacca 240  
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 aataccagga tcaagaagta catccctcaa cactaaaagc ct 342

<210> 11381  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
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 tctgctgcgg ctgcttgggc tacgccgctt tgggcagcga cgcgccgggc aacctcctta 180  
 ccggttcggt cttgtacggt ccgtactggc tcatcgactt cgccaacgcg tgcacatcc 240  
 tccacctgct gggcggttac caggtgtaca gccagccgat attccagttc gcggagcggc 300  
 tcttggcgga gcggttcccg gacagcgggt tegtgaacgg cggctcctac accgtccggt 360  
 tcgcgtgcct gcag 374

<210> 11382  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-H7  
  
 <400> 11382

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caataactcaa accataatct atatatgcat tagcttactc taaacattgc aaaacatctt 180  
actacaaata ttacacatt gaaattaaaa ccttaactca acctatt 227

<210> 11383

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H8

<400> 11383

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acaacttggt ctagcaaacc ttgctgcata ctctcagcaa catcagtttc ttccattcaa 180  
ccaactgggt gcattgaact ctgctgctta tttgcaacaa caactaccat tcagccagct 240  
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tgcttattta cagcagcaac aactactacc attcagccag ctagctgatg tgagccctgc 360  
tgccttcttg acacaacaac agttgttgcc gttctaccta cacgctatgc ctaacgcttg 420  
caccc 425

<210> 11384

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H9

<400> 11384

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ggtactcagc atagttcgac agagtcagtt ggttgaatgg aagcagctgt tgcaagtagg 180  
caataggggt tgccacagca gcaacatttg ctgccttaca accagatctc tatgatgtat 240  
cctatgttgc cgaggcatca tcccatcggt ggaggtgcc ttttttagat tacatatgat 300

atgtactaca ttacgggtgcc ctctaccga catgtgttta ctagatgtaa tcaat 355

<210> 11385  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A1

<400> 11385

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aaaaaatcct ggtcctaaga caactttcga agttggaatg ttagctggtg attcatggaa 180  
gaagggtcaag agcgacaaac gaaatgacca gagcaatgcc aatgacatta ccaataaatc 240  
caaaataaccg gttccttcta ttgtagaccc acagcctaag caacaggatc acaattccga 300  
ttcagatttt gagggaaa 317

<210> 11386  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A11

<400> 11386

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caatgcgaga agacatgttg aaccgatcaa acacacatcg tgctagaagt cagtttttag 180  
aaaatcacct ggcaaagtta tttgagcaaa aaatggaaat attcaccaaa gttgaataca 240  
cacaggaatc tgttatttct actgtcctca agctctgcct gaaaagcttg caagaatttg 300  
tccgtcttca gactttcaac agaagtggat ttcagcagat tcagctggat atggaatttc 360  
tcaagacctc tcttaaggaa tttgtggatg atgaagcagc cattagcttt ttac 414

<210> 11387  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A12

<400> 11387

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caacagtacc taccagcact gagccaccta gccatgggtga accctgccgc ctacttgcaa 180  
gagcagctgc ttgcatccaa cccacttgct ctggcgaaac tagttgcaaa ccagcaacaa 240  
caacagctac aacagtttct gccaacgctc agtcaactag ccatgggtgaa ccctgccgcc 300  
tacgtacaac aacaacaact gctttcatct agcccgctcg ctgtgggcaa tgcacctaca 360  
tacctgcaac aacaattggt gcaacagatt gtaccagctc tgactcaact agctgt 416

<210> 11388

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A2

<400> 11388

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ttgatattgt tgggtgttcag actgtaataa atttcgcatg cccaagagat gtgaaaactt 180  
atcttcatcg tgttggccgc actgcgcggg caggaagaga aggctatgct gtgacatttg 240  
taaccgatga tgatagatgc ctcttgaaag caattgcaaa gaaggctggt tcacagctga 300  
aaagtgcgat tgttgcagag aaacctgtgg ctgagtgtgc acgactgatt gagcaactag 360  
aaggccaaat ttctatcatc attcgagaag aaagggttgg aagaga 406

<210> 11389

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-028-Q1-K1-A3

<400> 11389

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gcggcctttg aggcctagtt aagttttgag tagttgtgtc gctgaacttg tattgagacg 180  
aaatagtatt tttatcaatc tgtcttatcc tgcgtcttca caacaagttg cctatctgtg 240  
gactttaagc ctgcatgttc gttntatttc tccattgccg tgggagcata gtatttgcac 300  
gttogaacca attatctgga ttatggtatg gatntgtgca c 341

<210> 11390

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A5

<400> 11390

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aaaaaatcct ggtcctaaga caactttcga agttggaatg ttagctggtg attcatggaa 180  
gaagggtcaag agcaacacag gaatggacca gagcaatgcc aatgacatta ccaataaatc 240  
caaagtaccg gatccttcta ttgtagaccc acagcctaag caacaggatc aca 293

<210> 11391

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-A6

<400> 11391

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caatcatcag ccctattaca tcagttacct ttggtgcatt tattggcaca aaacatcagg 180  
gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca gcaacagcag 240  
ttttttccat tcaaccaact agctgcattg aactctgctt cttatttgca acaacaacaa 300  
ctaccattca gccagctacc tgctgcctac cccagcaat ttcttccatt caaccaactg 360

gcagcattga actctcctgc ttattttacag cagcaacaac tactaccatt cagccagcta 420  
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<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-028-Q1-K1-A8  
  
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gtcctcagat ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240  
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
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ggcgggtgggt acggtggt 378

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<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-028-Q1-K1-A9  
  
<400> 11393

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attttccgc aatgctcaca agtcctata gcttccttc tttcccgta cctctacca 180  
gcggtgtctt cggatgtga aaaccaatt cttcaaccct ataggatcca acaggcaatc 240  
gcagctggca tcttaccttt atcacccttg ttcctccaac aatcatcagc cctattacag 300  
cagttacctt tgggtgcattt attggcacia aacatcaggg cacaacaact acaacaactt 360  
gtgctagcaa accttgctgc ctactctcag caacagcagt ttcttccatt c 411

<210> 11394

<211> 420  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B1  
  
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 acaatccttg gcacatctaa cctacaaac cattgcaacg caacaacaac aacaacagtt 360  
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<210> 11395  
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 <212> DNA  
 <213> Zea mays  
  
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 cagctctcca gagattcatg cgaagtcgag cacacattca ccagcaaaca ggtgtccaca 300  
 ttacatcttc aactatctac acttctacct tacacattgc tagggtaaatt gtgagggacc 360  
 ctggtacaat aaacgatggc ctcggtgctg ctcgtgaagc agatgcccta ttg 413

<210> 11396  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-F6



<400> 11396

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tgcggtcaag gccgaggcag aaggtagcct caagggcatc ctgggttacg ttgaggagga 360
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ca 422

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<210> 11397  
 <211> 425  
 <212> DNA  
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<223> Clone ID: LIB3059-027-Q1-K1-F8

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gaagaacatt gctgtgattg ttggcacagt cacagatgac aagaggatcc aagaggttcc 360
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 <211> 263  
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<223> Clone ID: LIB3059-027-Q1-K1-G1

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 cctagtgccca ttattccaca tttacttcta ccacttactc tcatcggcta ttaacatcaa 180  
 actttgcaat cttacaagct acaactatct cttgccgcta gcgctttaca tacaaccaat 240  
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<210> 11399

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G10

<400> 11399

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 gtaggtttgc tgtccgtgac atgaggcaga cggttgctgt tggagtatc aagagtgtgg 240  
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<210> 11400

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G12

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 agattccccg tctccttggc cctgggtctca acaaggcagg caagttccccg accctgggta 240  
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tcaagaaggt cctttgcatg ggtgtcgccg tcggcaactt ggcgatggag gagaagcaga 360  
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<212> DNA  
<213> Zea mays  
  
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<211> 352  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-G3  
  
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<210> 11403

<211> 149  
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 tctcgtcacg tgcctgactc tgtcagctgc catcgccctct gcaatgcaaa tgcctctgcc 120  
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 tcctatttaa aacacatgaa acctttgaaa attcataact caaatgctat aactccaaaa 180  
 attatgattc ctgttcctag gatatttatta taatgtgtag aatattactg tgtgttttgt 240  
 ttacatgttt ggtgtgatgt taatttcctt atatacgggtg tttgtttgta ttgtggcgag 300  
 tagaagaacc cgtgaccgag gatcctgggtg agcagcaggt tgaagtagct gagcaggagc 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-G8  
  
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 tcgcaacaca acagcaacaa cagttcctac cagcactgag ccaactagat gtggtgaacc 180

ctgtcgccta cttgcaacag caggtgcttg catccaaccc acttgctctg gcaaacgtag 240  
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tggtgaaccc tgccgactac ctacaacagc aacaactgct ttcattctagc cctctcgttg 360  
tggtgaatgc acctacatac ctgcaacaac aattgctgca acagattgta ccaactctga 420  
c 421

<210> 11406  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-G9  
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ctaacgcgac aattttccct caatgctcac aagctcctat agcttccctt cttcccccat 180  
accttccatc aatgatagct tcagtatgtg aaaaccagc tcttcaaccc tataggctcc 240  
aacaagcaat cgcagcaagc aacatacctt tatcaccctt gtttcaacaa tcgccagccc 300  
tatctttggg gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc 360  
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<210> 11407  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-H11  
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gccctgcccc tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat 180  
gatgggcgcc ggcggtgtgt acccctacgc ggagtacctg aggcagccgc agtgcagccc 240  
gctggcgggc gcgcctact acgcccgggtg tgggcagacg agcgccatgt accagccgct 300

ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtcg tcgcgcagca 360  
gctgcagatg atgatgcagc ttgagcgtgc cgc 393

<210> 11408  
<211> 248  
<212> DNA  
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<223> Clone ID: LIB3059-027-Q1-K1-H2

<400> 11408

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaatga aaaataaaaa atatataata agacaacgaa atagaaaaca 240  
aaaacata 248

<210> 11409  
<211> 129  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H3

<400> 11409

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accatcattc acatcccaat agacgtctct aataactcat tctacctcct attaaattcc 120  
ttactaaaa 129

<210> 11410  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F5

<400> 11410

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ctaccacccat tcagccagct agctgatgtg agccctattg ccttcttgac acagcaacac 180  
 ttgttgccgt tctacctgca cgctgcacct aacgctgtca ccctcttaca actgcaacaa 240  
 ttgctgccat tcaaccaact tgctttgaca aaccaacag cgttctacca acaacccatc 300  
 attgctgggtg ccctctttta aattgcttat gagttatagt tcaataatga aattttttgg 360  
 atgatgtttg tagctatcca gaaataaaaa agtacatttc tagatctt 408

<210> 11411

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D9

<400> 11411

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 ccttgctgac gccacaatgc tccctcaatg ctaacacgct cctatagcta tcattattgc 180  
 gccatacctt gcatacatta tagctccaat atatgaaaac ccagctattc aaccatatct 240  
 gctgcaacac gcactcgcca taagcagcat acctaaatcg cccttggtga cacaacattc 300  
 gtcagtcccta tcttttagcgc aggcacgtg acataccatc atggcacaac acctgtacca 360  
 tctcgtgcta cctctgatca accaagtagc tc 392

<210> 11412

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E1

<400> 11412

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 atcaggaaat ccgtttgctt catgttatgc aggcacagat ctgattgctg gattcggcat 180  
 cttacgggct tgaatagagc taggactggg agaaaacaac aaacccgcgt tggatcctgt 240  
 atcggttagt ccttgccttc aaggttcatg ttgttttggt ttggtgggtc agcatcgcat 300

gttctgcttc tggttccaga tctggagaaa tttctaagtc gtcgtcgtcg tcgtcgttcg 360  
gttcggagcg gatctgaggc gacgatggct ggaggcggcg ggatctcttg gtctgcagtc 420

<210> 11413  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-E10  
  
<400> 11413

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tgggtgctgag tatggaagcg gcagttctcg tgattgggct gctaagggtc cgatgctcct 180  
gggagttaaa gctgtaattg ccaagagctt tgagcgtatc cacagaagca acttggtggg 240  
gatgggaatc attcctctgt gcttcaaagc tggtgaggat gctgattcgc ttggcctcac 300  
tggacatgag cggtaacagca tcgatctccc taccaacctc agtgagatcc gtcccggcca 360  
ggatgtgact gttactaccg acaatgggaa atctttcact tgca 404

<210> 11414  
<211> 398  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-E11  
  
<400> 11414

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accaccgtaa tcagttgatt cagctagagt tattcttgag ttctggtacc gtctgtctgt 120  
cgctgtactc attagttgct ggagtctttg gtatgaatat tccgtatacc tgggaatgacg 180  
gccacggata catcttcaaa tgggtgggtc ttgtatcagg gcttttttgt gcctttatat 240  
ttgtctccat tgttgcttac gcacgacaca aggggctcgt cggatcctga atagctgaaa 300  
taaccgcgta cttgcttccc tcaactgtaa atttgagcca gtgagcatcg actttgcggy 360  
gtgattcatc tgttgtagca aattcggtag tatcaaat 398

<210> 11415



<211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 11415  
  
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 gcacaacccg ctcccagagt gccgctggta cgtgaccagc cggacctgcg gcatcggggc 180  
 gcgcctcccg tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc 240  
 gtactgccgg tgcacggcgc tgagcatcct catggacggc gcgatccgcg cgggcccggg 300  
 cgcgagctg gagggccgcc tagaggacct gccgggctgc ccgcgggagg tgcagagggg 360  
 attcgccgnc accctcgtca cggaggccga gtgcaacctg gccaccatca gcg 413

<210> 11416  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-E3  
  
 <400> 11416  
  
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 gagcatcaac aagcactgag ccacctagcc gtgggtgaacc ctatcgcta cttgcaacaa 120  
 cagctgcttg catccaaccc acttgctttg gcaaacgtag ctgcatacca acaacaacaa 180  
 cagttgcaac agtgtctgcc agcgctcagt caactagcca tgggtgaaccc tatcgcttac 240  
 ctacaacagc agcaacttct ttcattctagc ccgctcgcta tgggcaatgc aactacatac 300  
 ctgcaacaac agttgttgca acaaacaggt gctgaacaaa attgtaccag ctcttactca 360  
 gctagctgtg gcaaaccctg ctgggtactt gcaacaacta cttgcattca accaa 415

<210> 11417  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-E5

<400> 11417

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gtccccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctacc 240  
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<210> 11418

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E6

<400> 11418

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gttatcacga tctgatgtcg tgaagaaaat gtgggattac ataaaaggga acaacctgca 180  
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ggaaacattc accggcttta ctgtttcgaa gctgcttgcc cctcatttta ccaagacgaa 300  
gtagcaacct gccatccaca tctttctaaaa ccaaaaaggc ttggtaattt tgtttttgca 360  
gaatgtgtaa tcatggaaca gttaggagct atgtgggtgg tgtgaatttt ttttttggtta 420  
cctatggg 428

<210> 11419

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E7

<400> 11419

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gggaggattt tgctgtgggg gataaggatg ctgtgggtcat tgttgatcat gggtaagac 180

gccaagaatc caatctcatg ctaaatagact ttgttgagat gttccgggog aagactagct 240  
atagtattgt tgaggctgct catatggaac tagcgaacct tcctataaag aatcttttgg 300  
aaaatgtgtt ccaccaggaa cattaacagg taatggcaag ccatattttc ttttccc 357

<210> 11420  
<211> 357  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-E8  
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acggtgactc acagtaacaa gggcactgat agacaatctg acaaatacaa gcgcactaat 180  
taccaagggc agtcaggata tggacgtcag accaatcctg ttttccacat gatggccaag 240  
agcacctaca agattgttct gaaactgcc a tgactgagca gcaagcacta ctcacaagga 300  
gcatatctat aaattcacgc attttcagat tggtagcaac actaactgca acggcac 357

<210> 11421  
<211> 382  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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catgcacggc gaggcgcagc agcagcagaa gcagggcgcc atgatgacgg cgctcaaggc 180  
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cacggtgatc gcgctcacgg tggccacccc cgtgctggtg atcttcagcc cgggtgctggt 300  
gccggccgnc atcgcgctgg cgctcatggc ggccgggttc gtcacctccg gcggcctcgg 360  
cgctcgctgcg ctgtccgtgt tc 382

<210> 11422  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-F11  
  
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 gacgtacacc acatcacgtt actgcaataa gcggtccgc taggcgtctt gcccgatcgt 180  
 cgtgcgcctt acaaactgca tcatgatgca cgagctgctc atcggcgaca aggtcatcga 240  
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<210> 11423  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-F12  
  
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 gaggtgccat atttcttgct catgtaatgt tatttggtgt atgctcgttt gtatgtacta 240  
 catgaagcat tgtaaaattg agcaacagca accagagctc gagaatctta ggcgcaacca 300  
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<210> 11424  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
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<400> 11424

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cctagtgcc a ttattccaca gttcctccca ccagttactt caatgggctt cgaacatcca 180

gccgtgcaag cctacaggct acaactagcg cttgcggcga ggccttaca acaaccaatt 240

gcccattgc aacaacaatc cttggcacat ctaaccctac aaaccattgc aacgcatcaa 300

caacaacaac agtttctgcc atcactgagc cacctagccg tggatgaacc tgctacctac 360

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caacaa 426

<210> 11425

<211> 400

<212> DNA

<213> Zea mays

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<400> 11425

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gagttcaaca aggcttatag cgcacgtttt taccatgca tggatatact ctacgaatgc 120

tatgaagatg tggcctctgg aagtgaatc cggagcgtgg tgttggtg gcgaggttt 180

tatgagaaag agggcctccc agcttttccg atgggcaaca tcgaccaaac tcgcatgtgg 240

aaggttggtg aaaaggtgct ctcaaccgt cgggaaggtg atcttggccc gctccatgcc 300

ttcactgctg gactgtacat tgccctgatg atggctcaga ttgagatcct gaggaagaaa 360

gggcactcct actctgagat catcaacgag agcgtgattg 400

<210> 11426

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D8

<400> 11426

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 ggaactggta gctatggtgc tccatatcca caccttgga tgcgatatgg ctatggtcca 180  
 ccagtaggac ctctggttc atatggtctt ttctcttcac atggtccacc tgggccaatg 240  
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 tctccaatgc cggtttctag cccatggtct cgtggagcat tagctgaaaa caatgacaac 360  
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 ccca 424

<210> 11427  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-C11  
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 cacaagctcc tatagcttcc tttcttcccc catacctctc accagcgggtg tcttcagtat 180  
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcgcagca ggcattctac 240  
 ctttatcacc cttgttcctc caacaaccgt cagccctatt acagcagtta cctttggtgc 300  
 atttggtggc acaaaacatc aaggcacaac aactacaaca acttgtgcta ggaaaccttg 360  
 ctgcctactc tcagcaacag cagtttc 387

<210> 11428  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 atgctgctgc taccagcagc agcgagaaga agacgtcgtg gccggagggtg gtgggcatgt 180

ccatcaagga ggcgacggag actattctca aggacatgcc caacgcgtac atccaggtgc 240  
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 acaccgtcgc catgactccg acagttgggt gatacatacc aaatgcaata aacaaaccct 360  
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<210> 11429

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C3

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 aaaactcgtc atctccgcga atgttgaacc tgtaaaacta ctttttttaa aaagcatctc 180  
 actggagagt ttgaaaatta atatggacca accattggta ttgaaattca tccgttagat 240  
 ttcaacacta acctttgtaa aatcaaggtc tacttcttgg ataccctacg gcaagaaaaa 300  
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 gtaacc 366

<210> 11430

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C4

<400> 11430

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 tgatgagtac aaccatgaaa gatatactcc tggagatccc agcaagcgtg cctttgcata 180  
 ctttgacctg agtgggtggga ggttcatata tgctgcactg ctgcatcttc tcgtactgaa 240  
 gtgtgcactg agcatgtcag cagcgaagga tgtgcttgcc cttgcttcac tagagggtga 300  
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tatcatgcgt cggacagagg atgacatcaa gcttgtcaac agtg 404

<210> 11431  
<211> 322  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-027-Q1-K1-C5  
  
<400> 11431

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aagcacgctt gtctttctaa atgatctgaa cttacgagca cattacatca cagctatcaa 120  
tttctcctag ctacaatatt tgcgtgtacc caccaactat ctctaacatg ggacgatgaa 180  
atcccacagt ctaaatctaa ctgttacaac ctaggcacg atccaagaat gttacacttt 240  
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<213> Zea mays  
  
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aatagtatctt ctcagcgaca tatctctgca cttcctgaca caattcatgg ctgcaatcca 120  
tatgaaaaaa atattacaga aagatgtata cagcaatcat gcaaaacatt gcaagttgta 180  
atctcagagt ggatatcaaa atttgacaac atggaaattg atcgttcaag gttgcaattg 240  
aataatgtgg atgcaattac ttccaggaca tatactctgca accattgcta cagcaagttg 300  
gctgatttcc tgctctactg attccgtgta tcattgtccc aaaatctttt tcca 354

<210> 11433  
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<212> DNA  
<213> Zea mays  
  
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<400> 11433

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tttccctcaa tgctcacaag ctccatagc ttccttctt ccccatacc ttccatcaat 180  
gatagcttca gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatcgc 240  
agcaagcaac atacctttat caacccttgt tgtttcaaca atcgccagcc ctatctttgg 300  
gtccagtaat tggccaacc caatcaggca ccaacacctg caaccacctc gtcctacctg 360  
tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa caatttcttc 420  
cattcaacc 429

<210> 11434

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D1

<400> 11434

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tcagtacaag atcgttctcg atcggttgac tcagacgtct ctgggcttgg gcttcatgac 180  
gggcccacag tggaggcgat gcttaacggc atacatggca tgaacgcaa cgcgcttgac 240  
tgtcgcaaca tgaccgggca cgatgaccag tcccggggcg gtcttagagg ccgcagcggc 300  
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<210> 11435

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D10

<400> 11435

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caggacattg ctctggctga gcttgctcca actcacccta ttaggcttgg actggcactt 120

aacttctcag tgttctacta tgagattctg aactcacctg atcgcgctg cagtcttgca 180  
aagcaggctt ttgacgaggc catctcggaa ctggacaccc tgagcgagga gtcctacaag 240  
gacagcactt tgatcatgca gctccttcgt gataacttga ccctatggac ttctgacatc 300  
tcggaggacc ctgctgaaga gattagggag gcaccaagc gcgactcgag tgaggggcag 360  
taaagccggc tttatgtgcc tagaaactag tagctagtgt ttgctgctgt cgaatg 416

<210> 11436

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D12

<400> 11436

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gccagccgcg ccatggagca agccgccatg ccgcaggttc cccgcgtcaa gctcggcatc 120  
caggggcttg aggtgtcgaa gctgggggttc ggggtgcatg ggctcacggg cacctacaac 180  
gcgccgctcg gcgacgaggc cgtggccgcc gtcgtcgcg acgccttcg ccgcgggac 240  
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gcgctcaagc agctgccgag ggagcagggtg cagggtggcca ccaagttcgg gataggtcag 360  
ggcgccgctg gcatgaccgt gtgcggcacg cccgagtacg tacgcgcct 409

<210> 11437

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-D2

<400> 11437

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catctatcta catctttccc acatactact acctatcatc tat 163

<210> 11438

<211> 416

<212> DNA  
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 <223> Clone ID: LIB3059-027-Q1-K1-D4  
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 tttcatctac cgctccggtt ctatatgccg cctccgttct atctgccgcc gcatcagcag 180  
 ccgcagccat ggcaataccc cactcaacca ccgcagctaa gcccgtgcca gcagttcgga 240  
 tcttgccggc tccgcagcgt cggcagcccg ttctggggc agtgcgtcga gttctgagg 300  
 caccagtga gcccgcgccg gacgccctac ggctcgccac agtgccaggc gctgcagcag 360  
 cagtgtgcc accagatcag gcaggttgag ccgatgcacc ggtaccaggc gacata 416

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-D5  
 <400> 11439  
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 ccagagcagc accgtggcct cgcggcgat ctgcagggc gcgtccagct ccatgtggcg 180  
 gcgcgcgacg tcagagagga gggcgccggc gcggcgccg agctcgacac cgtcgaggcg 240  
 cgcggggagg tggagcacgc ggcaggaggt ggcgggctgc tcgcggcgt cgaggcgggc 300  
 ggtgccgacg tgcgcgccgt cgtaaaggat 330

<210> 11440  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-D6  
 <400> 11440  
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atggctccta aagctgctcc tgccaagaag ggtgatgcca agaccagggc cttgaaggtt 120  
gccaaggctg tgaagtctgg ggcagccaag aagaagacca agaagatccg cacgtctgtg 180  
acatttcacc gccccacgac cctgaagaag gctagggacc ccaagtaccc acgaatcagc 240  
actaccggaa ggaacaagct tgatcagtag caaattctta agtaccctct taccacagaa 300  
tcagcgatga aaaaaaatga agataacaac actctgggtc tcattgttga cctcaaggca 360  
gacaagaaga agatcaaggc tgccgtcaag aagatgtatg acatccaggc aaagaaggtc 420  
aaca 424

<210> 11441  
<211> 382  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-C10  
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acgaccacca gcagcagcaa gaagtcgtcg tcgccgtcgt cctcgagctc ggccgcagcgg 120  
gcagcagctg ccgccctgct cgtggcggtg tccgtcctgg tgggtgggcgc ggccggcggtg 180  
tgcgacatga gcaacgagca gtatcatgtc tgccagcccg cgccggccaa gacgacggac 240  
ccgccggccg cgccgtcgca ggcgtgctgc gacgcgctgg cgggtggcgga cctcaagtgc 300  
ctgtgcggtc acaagaactc gccgtggatg ggcgtctaca acatcgaccc caagcgcgcc 360  
atggagctgc cggccaagtg cg 382

<210> 11442  
<211> 403  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-A5  
<400> 11442

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catggccaag ttgctcgtca ccgacgaggc gcgcaaggag ttccgccgtcc tgcgacgcgc 120  
tttccatgac gtcaaccacc agctccagac caagttctcc caggaacccc agccgattga 180

ttgggagtag tacagaaaag gaattggatc aaaagcgggt gatatgtaca aagaggcttt 240  
 tgaaagcatc gagatcccgga agtacgtcga cacagttact acccagtaca agccaaagtt 300  
 tgatgctgcg attgctgaat taaaggaggc tgaaaaagag catcataagg agtcagaaaag 360  
 gatagagaaa gaacttgctg aaatggaaga aatgaggaaa aag 403

<210> 11443

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A6

<400> 11443

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 gctcacaagc tcctatagct tcccttcttc ccccatacct ctcaccagcg gtgtcttcag 180  
 tgtgtgaaaa cccaattgtt caaccctaca ggatccaaca ggcaatcgca acaggcatct 240  
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<210> 11444

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A7

<400> 11444

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 ttgctcctag tgccagtatt ccacagttcc tcccaccagt tacttcaatg ggcttcgaac 180  
 atccagccgt gcaagcctac aggctacaac tagcgcttgc ggcgagcgcc ttacaacaac 240  
 caattgccca attgcaacaa caatccttgg cacatctaac cctacaaacc attgcaacgc 300  
 aacaacaaca acaacagttt ctgccatcac tgagccacct agccgtggtg aaccctgtca 360  
 cctacttgca acag 374

<210> 11445  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-A8  
  
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 tgatgagtac aaccatgaaa gatatcctcc tggaaatccc agcaagcgtg cctttgcata 180  
 ctttgtcctg agtgggtgtga ggttcatata tgcttactg ctgcatcttc tcgtactgaa 240  
 tgatgtcctg agcatgtcag caagcaagga tgtgcttgcc cttgcttcac ttgaggtgga 300  
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 t 361

<210> 11446  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-027-Q1-K1-A9  
  
 <400> 11446  
  
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 cgcacccgca agttcatgac caaccgcctc ctggcccgca agcaattcgt gcttgaggtg 180  
 atccaccccg gccgcgcaa cgtctccaag gcggagttga aggagaggct tgccaaggcg 240  
 tacgaggtga aggaccccaa caccatcttt gtcttcaagt tccgcaccca cttcggagga 300  
 ggaaagtcca ctggtttcgg cctcatctac gacaacctcg aggctgcaa gaagttcgag 360  
 ccgaaatacc gnctcatcag gaatggtctt gctact 396

<210> 11447  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B1

<400> 11447

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gtgtccttcg caciaagcct tttgaaattg gcattgtaaa tggcatggat gtttatgaat 180  
gggatccttc aacagataag tacaccagcg tgaaatatga tgcaacaacg gtaactgaag 240  
caaaggctct caataaagag aggttgcaag ctgaagttgg attgcctgtg gactcgagca 300  
tacctgatat agtcactgtc gggcgtcttg aagtacagaa aggtcttgac atactcattg 360  
catccattc 369

<210> 11448

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B10

<400> 11448

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tgatcgctgc gtttacgtca ctgagaccgt ccttgctgcc tgctacaagg cgctcaacga 180  
gcaccatgtc ctctggagg gtaccctcct gaagcccaac atgggtgactc caggctccga 240  
ctccaagaag gtgacccttg aggtgattgc tgagtacacc gtccgtaccc tccagaggac 300  
cgteccctgct gctgtgctg ctgttgctct cctctctggt ggacagagcg aggaggaggc 360  
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<210> 11449

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-B11

<400> 11449

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 tatgtagctc tacatatata tatattgcta ctactatcaa gcatgtatgt cgccgttgtg 180  
 gagacacatc tattgatcta tacatgagct tgtggaagca gataggtctg cattaatt 238

<210> 11450  
 <211> 183  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-B12  
 <400> 11450

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 cggctgacca gaaccttgag ctgcgaagc aatgctcgcg agagggccgc ctgcgagggt 120  
 tcaaggcagc agctgtcgcg accgtcgctt ctgcagttcc caccctgggt agcgtcagga 180  
 tgc 183

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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gccaaactaaa tggatccatt ataccatctg aacgacaaa ccatatgatg atggaggtgt 180  
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 caactccact gatcactatt gcaatgacaa aaatagtggc tagtgtattg gagaagaaca 360  
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 ccct 424

<210> 11452



<211> 401  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-B6  
  
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 cagttaaagc tttgtagtgc tgtctgtcag ttgctgcctc aaacttggaa tactacttct 300  
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 acccacttgc tctggcaaac atagttgcat accaacaaca acaacaattg caacagtttc 180  
 taccagcgct cagtcaacta gccatggtga accctgccgc ctacctaaa cagcaacaac 240  
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<210> 11454  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-B8

<400> 11454

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caaccaccca ccattgcaag cgttgtattc ccgttgcagc agccactgtc accatcagca 180

atgaccaaac cacctcatgc tgcaccacca ctcgaaactga agctctttcc ataagtggca 240

tctggcgaaa gccatcaacc ctgtgaagac caccaagctc ccaaccatgt ggcacgacca 300

ccggccaggt acccaacgca a 321

<210> 11455

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-B9

<400> 11455

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cccgacccgg acgtcatcaa ggagaccgcc accaagacgt tccacgacct ctacgactac 180

ctactcaaga actagatgga gcgacaactg gagatgggtcc agtacagtac agttccagtc 240

cattcatcga cgcgtcacag ttactagtgt cacgtcgtgt gtgtggtctg gtgcccgtgc 300

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<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A3

<400> 11456

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atggcaat 368

<210> 11457  
<211> 311  
<212> DNA  
<213> Zea mays  
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ctttcagttg aattgggacc tggaattctt ggaaacattt ttgacgggat ccagcgacct 180  
ctaaaaacca tcgctattaa gtcaggagat gtgtatatc ctcgtgggtgt ttcagttcct 240  
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<210> 11458  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-G7  
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catcccctgt acttcagaac ttactctta attatggtgt tcggcgtatg gaccttggcg 180  
gcaaggccct taaaaactat ctcaaggagc tcgtctcata ccgttccctt aatgttatgg 240  
atgaaactct cctcattgat gatgcaaagg aaaagctatg ttttgtctcg cttgatgtcc 300  
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<210> 11459

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 tgaggactac gccgacaccg acaccgactt cgacgccgtc acggacgagc tgttgtggtc 240  
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 acg 303

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 <212> DNA  
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 ttctcccttt tctaagcgaa tcccccgagg ttgttgacca tgaacttggt ggaaatgcta 180  
 acggttgaca caatggagtg acaaatgcgg aaatgcctaa agcatcaagg gctgcaccat 240  
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<210> 11461  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H10  
  
 <400> 11461  
  
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ctgggcgaca attctaggca gcaggcttgc caaatccttg atgaggagat tgcgaagcaa 180  
 tggcactgac cagcgtaaat acaggatggt gtactaacca attgtttggc atgattttgt 240  
 tttgacggga taaatcagtt ttaaggcttg cttcttccgt tgcccttggtg cccattcttt 300  
 tcattcttgt gaccataccc aattctttat tgcaagtggg gtcaacaagc atgaggctac 360  
 agctgcatca cctgcaagga agtcaaaagt aagaggcaca tgca 404

<210> 11462  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H11

<400> 11462

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 tctacgcaag cctacttgct acaacaagca attgcggcaa ccatgttaca acaaccaatt 180  
 gcccaatagc aacaacaatc cttggcacat ctaacaatac aaaccatcgc aacgcaacat 240  
 caacaacagc tctaccagc actgagccac ctcacatggg tgaaccctgt cggctacttg 300  
 caac 304

<210> 11463  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H2

<400> 11463

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 gggcggctct gtgtccgcc aagaggcgga cgtgtacgtg gccagctagt ttaagagcag 180  
 gcgcaagcgc ggcgaggccg aggatggtga aggcctgtgc ctgcctggtt caagctagag 240  
 aatcccgtcg gtggaggcgc aggcgctcac gggtgggtgc ccgcctctgc gccgcacgag 300  
 c 301

<210> 11464  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H5  
  
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 acaaactgct gcctgtatgg actcgtgcga ttcagggtga accatcagat tgtctagtgt 120  
 cttctttgta ataaatttat ctgttcttgg tactttgtct atggttgaat cggaacccat 180  
 tttccgtttg cctagattct taatttctgg tgctgtatcc agctgaaact agtagatcta 240  
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 caggtttgtg gctgtaaaag gctgtgctta 330

<210> 11465  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H7  
  
 <400> 11465  
  
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 cacaaggcca aagatctcaa actcgaaacc taaggcttca agggcaaagg ttgcgcgagc 180  
 gcaagaaacc ccagctgaag cccctccttc agaacctgct gctccagaag atttcacggt 240  
 tgaacatggc gttggagacg ccacaggtcc tgatctgacc gcgcaattgg ttgcttcgaa 300  
 cga 303

<210> 11466  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-H8  
  
 <400> 11466

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tgcgcggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180  
ggcggggtgt acccctacgc ggagtacctg aggcagccgc agtgcagccc gctggcgccg 240  
gogccctact acgcccgggtg tgggcagacg agcgccatgt accagccgct ccggcaacag 300  
tgctgccagc agcagatgag gggttatggac g 331

<210> 11467

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H9

<400> 11467

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acacaatgct cacttacttc tagttccatt attccacagt tctcccacc agttacttca 180  
atgaccttct aacacccaac tgtgcaagcc tataatctac aacaagcgat tgcgacgaac 240  
gtcttacaac aaccaattgt ccaatttcaa caacaatcct tatcacatct aacaatacaa 300  
accatcacia ctcaacatca acaac 325

<210> 11468

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A10

<400> 11468

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gctgcaggcg atgaagaagg acaccctaga acgccccgg gagcccaact tggatctgaa 120  
ggcgtaacct gccaaactgt acctgcaccc ggtgttcaag ggggacgaag gcgacgacag 180  
gtactcggtg atggacgacg atgggtggat ggaggaggag gtgatcgatgc cgacgaagcg 240  
gcattcgagg aggacgacgc ccgcgacag caagcatgaa gggtcggact cgctctctgt 300

gctcgagagt tctctacagc ggtagtcaca gtaggagctt agcctgtaca gaatggatga 360  
aatgatcac ggcctgctc cattgctttt gctttggttg ttggttggtc atgt 414

<210> 11469  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-027-Q1-K1-A11  
<400> 11469

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gcaaaatcct ccgccggcgg gtgagggcgg agaggagccg cagctctcga agaatgcgaa 120  
gaagagagag gagaagagga agaagctgga agaggagcgg aggctcaagg aggaagagaa 180  
gaagaacaag gctgcggctg ccagtggaaa acctcagaag gcattctgctg ctgacgatga 240  
tgacatggat cccactcaat actatgagaa taggctcaag gctcttgatt cactgaaggc 300  
cacaggtgta aaccctatc ccataagtt cccggttggc atttctgtac ccgaatacat 360  
tgagaagtac aggaccttga gcgaggggga gaagcttaca gatgtggcag agtgtttagc 420  
tgggaggatc atg 433

<210> 11470  
<211> 353  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-027-Q1-K1-A12  
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gtcacctacc caccgagcac gcnnccgccg caaggaaccg tnnccaccgc atnnggatgt 120  
nnngtctacg cgctttcaaa cgacaagggg gccgcaccct tctttacggc tnntcggcgg 180  
gctaaggggt cgcttcttcc aatcnntggt ggcnganacc tgggcatgtn ngttgtcngc 240  
nncggtnngg ttgggtgttg tgggtggcct ttaatttnaa gtctaagtcc cccgttctct 300  
cttaattcgt cgcttgtngn nttctggtgg tgggtcttgg gtagtcccaa ttt 353



<210> 11471  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-027-Q1-K1-A2  
  
 <400> 11471  
  
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 gttcaagact caaaccagaa tttattgagg cattgggttg ttgtaaagat tggaagattg 180  
 cttcggagaa agatttggag attgaaatta aaaccttaag tgaacctatg aatgacgttg 240  
 acttggagga tgctgctgca attggaactt gagaagttaa agttcaagtt accatggatg 300  
 at 302

<210> 11472  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-G5  
  
 <400> 11472  
  
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 gagccagcg gagccgatag caaggggaag aagggtgctg cggggcgcaa ggcaggcggc 120  
 cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc cgtcggccgg 180  
 atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcaactgg cggccccgtc 240  
 tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagttggc aggggaacgcg 300  
 gcgaaagaca acaataag 318

<210> 11473  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-E7  
  
 <400> 11473  
  
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ccgtccttat gtccttagct ctttctgcat gtgttgctaa cgcgacaatt ttccctcaat 120  
 gtcacaagc tcctatagct tcccttcttc ccccatacct tccatcaatg atagcttcag 180  
 tatgtgaaaa cccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 240  
 tacctttatc acccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg 300  
 taaaaacat cagaacacag taactgcagc a 331

<210> 11474

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E9

<400> 11474

ggaattacga gctacgacgt acgcgtaccc ggacgcctac aggatccaat ttacttccc 60  
 cttccattct acttcatagg ggacctggtg taccacctac atgcaattca ctgacacgga 120  
 tccttataac ggcgttactt gtaaaacacc tatgcttccc aactaaattg gcttgcagca 180  
 cataccaata cttcctccaa gcctaataca caaatacccg aacacatcaa cttaacaac 240  
 attctcgcat cctaaatggc gaattccacg cgctatgtct tctt 284

<210> 11475

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F11

<400> 11475

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 agcagaccag acgagacctc tcgcgttcgg tctcctccc tgcccctgct gccgttcccc 120  
 ttcttctca gttctcccgc ccgctgctgc cctccgtccg cgtccagatc ccgccaccaa 180  
 ccgatccggc gccctccagc atggcggggg cgggggcgaa ggcggcgga gccctggctc 240  
 tggcgctcgt gctcgcgctc gcgggggcca actcggaggg cgacgcgctc tcggcgctgc 300  
 gccggagcct cagggacccc ggcggcgttc tgcagagctg ggacccacg ctcgtaacc 360  
 cctgcacctg gttccacgtc acctgcgacc gcgacaaccg cgtcaccgc ctagatcttg 420

gtaatttgaa cttatctggt

440

<210> 11476

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F2

<400> 11476

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atctgcttgt ctacctaagg gatcctcaac ggcctatatg caaggttggt gatttgggat 120

tatcaaaggt caaatgccag aactaatct ctggcggagt aagaggaaca cttccttga 180

tggcccctga gttgttgaat ggcagcagca gccttgtctc ggaaaagggt gacgtcttct 240

cgtttggcat tgtgatgtgg gagctactta cagggaaga gccttacgcc gagctgcact 300

<210> 11477

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F4

<400> 11477

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gcacacgctg cccctccct cgcctcctcg ctccaacttc tcggtcgtcg acggccccgc 180

cagctccgcc gcgggtaacc ccgatgagat cgccaagctc tcccccaacc tggtcggcca 240

gccctcggcg tcgctggtgc cgtcggccga gccgcggcg accaggccgc taaaggt 297

<210> 11478

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F5

<400> 11478

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atggcgacca agatatgttc cctcettatg ctcttgctc tttctgcatg tgttgctaac 120  
gcgacaatth tccctcaatg ctcaacaagt cctatagctt cctttcttcc cccatacctt 180  
ccatcaatga tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa 240  
gcaatcgag caagcaacat acctttatca ccttggtgt ttcaacaatc gccagcccta 300  
tctt 304

<210> 11479  
<211> 302  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-F7  
<400> 11479

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cccctgtttc tactcatttt ttggcccttg ataatgtcca cgagtatgta atagggacta 180  
atgaatcaaa cgttgtaaa taaacatttc attccgtttt gctaaaaaaaa aaaaaaaaaa 240  
agatcactgc aagaatgaac attttaccta cgtacatagc atgtagaccg atcaccagga 300  
tc 302

<210> 11480  
<211> 303  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-F8  
<400> 11480

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caggccaaca ggggtcagga tcatcagcca tggccgtgga cgatgagcca cagccgccac 180  
aaccctttga gtacacctcg tgagcgaccg agcgtcacct tttcttattc gttctttttt 240  
tttgactttt tgagtatgta gtgtgcggaa atttgttgtt ggctggaaga cctttttag 300  
aaa 303

<210> 11481  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-F9  
  
 <400> 11481  
  
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 cccggctgga ggccgccgcg gacccggagg agcgagagcg gaaggcggcg ttcgagcggc 180  
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 ccctcgtcaa caccagagtc tccctcctca acattctcag ccagtccttc tgattcccga 300  
 acagctctgg gatcaccaga acccagcaaa ctcgactgca ttttgcgacc ttggataaaa 360  
 gatgtagata gaaatgtgtg cgccaatgca atatagcaat g 401

<210> 11482  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-G11  
  
 <400> 11482  
  
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 atggagtcca agacggcgcg cggcccgcg acggggcggt ggacccgat gcgcgagtc 180  
 tggggctccg tctggcgcgt ggacaccaac caccgcatgc aggcgccctt ctccatccgc 240  
 atccgcaacg agtccggcaa gacgctcgtc gtcaacaacg tcatcccggc caactggcgc 300  
 cccaacacct tctaccgctc ctctgtccag tacagctagc tgatcgggat gcctgccttg 360  
 ccctgccttg cccgcaattg g 381

<210> 11483  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E6

<400> 11483

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gagagtcaaa tattagaggg catgagcgct aactgcaacc atgatatttg actctcaaatt 120  
aatttctgta ctgctgctcg gcagcgtgca tgcaaaactga gcatttttcca gtcagcctct 180  
gcgtgtgtgc gggctaattc aactatgaaa ttcatctgaa tttctttcca ctttcacttt 240  
ggtatcttca gtgaatatgt aaatctttga tgttcttctg cttt 284

<210> 11484

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G3

<400> 11484

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aatggcgctc ttgtgtatct gcaagcaccg agcgcctcatg ctctgagcag gcgggtctgct 120  
ctcgaagctc tcgactgccg gcgccagcgc cgggacctac tgctgccag gacggggccat 180  
gccgtacatc ccgattgcgc gctgcccgtg gtgctgtgacc agtcggacct gc 232

<210> 11485

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G4

<400> 11485

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atatgcatag cgtatctgcg gacacaaatt gctggatttt tgtatgggct gaggccacag 120  
gacaatcctc aagtcaaaga gattaggtgt atagccatcc ctccacagca tggaacacac 180  
cagatgggtga ctcttcacgc aaatcttcct gagcacgagt tccttaatga tctagaaccc 240  
ttgggatgga tgcatacaca gccaaatgaa gctccacagc tatcgccaca agacctgaca 300

<210> 11486  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C8  
  
 <400> 11486  
  
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 cattcttggg cctattggca tctcccagga cgagaaacag gttgtctgtc ttttgaataa 180  
 aatgcaactg caagctgaaa gtcactcctt gaaaggggag gctcgcattt cagtgtctgt 240  
 tcctccaaca agaagtgata ttctgcatgc ccgtgatttg tcagaggacg ttgctattgc 300  
 tt 302

<210> 11487  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C9  
  
 <400> 11487  
  
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 accgcgacca tcataccgca atgctcacia gctactatag cttcccttct tccccgtac 180  
 ctcttaccag tgatggcttc agtatgcgaa aaccaattc ttcaacccta caagatccaa 240  
 catgcaattg catcatgcac cttaccttta tcacccttga tcctgcaaca atcatcaccc 300  
 ctattacaac agttaccttt ggtgcattta ttggcacaca acatcatggc acaacaactc 360  
 gagctagcac accttgetgc ctactcttag caacaacagt tacctttggg gcatttgatc 420  
 gcacaaaaca ttaaggcaca acaacta 447

<210> 11488  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-D1

<400> 11488

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cccattggaa agcgaagcct cccactgaag caaaacctgc cattcttgat gagtttgctc 180  
atcctttccc tgagaatcac tgctatacta acagagcttt cgtggattgt acaccagata 240  
caagcgtcgc ctctcactat tatgattgac taactaaagc catacatgtc attactgcaa 300  
acca 304

<210> 11489

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D12

<400> 11489

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cagctcaaag aaatctggca agggtaagaa gccaggcaag ggtggcaatc gatatttgaa 180  
gagcattggc cttggtttca agactcccag ggaagcaatt gaagggacct acattgacaa 240  
gaaatgtcca ttactggaa ccgtttctat cagaggcaga attattgctg gaacatgcca 300  
cagtgctaag atgaacagaa ccatcattgt tcgcaggaaac tatctccact ttgttaagaa 360  
ataccagagg tatgaaaaga ggcactccaa cattccagct cacatctccc catgcttccg 420  
tgtg 424

<210> 11490

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D3

<400> 11490

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gctaccgccg cgtggtgttg ctccgcagcc gacgcgtcc ggggctggtg ggatgacgtc 120



aacgagtcgc cccagtggca ggacgcggcc ttcttctccc tcgccgacgg ctacgccctc 180  
gtctcacgcc gtcgactga ttcagctcgt caggatccag cgccgggtgc ccgagttcgg 240  
atggaccacg cagaaggtct tacacctcat gaacttactt gtcaacgggg tccgtgctct 300

<210> 11491  
<211> 337  
<212> DNA  
<213> Zea mays  
  
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<400> 11491

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aatggatggt cactgggcaa gggactgcaa ggctggtgac tggaagaaca aatgctaccg 180  
ctgtggtgaa tcgggccata tagagagaaa ttgccagaac agtccaagga atctcaggcg 240  
tgataaaagc tattcacggt ctccatcccc acgtggtgga cgtggccgca gccggagcta 300  
cagcagaagc cggatctata gccgttccag atcccca 337

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-026-Q1-K1-D6  
  
<400> 11492

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acatagttgc ataccaacaa caacaacaat tgcaacagtt tctaccagcg ctcagtcaac 180  
tagccatggt gaaccctgcc gcctacctac aacagcaaca actgatttca tctagccctc 240  
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ct 302

<210> 11493  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-D7  
  
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 aaagccaaga agaaatctgg tgcagctgac actgatgagc cctcagaatc ggatgccaaag 120  
 tctgacgaag ccatggaagc cccagcggaa caagaagtgg cccagcttc caccacggta 180  
 aagaaagaac agaaggagag tgcccggtag aggaatgtgg tgagccggag caaggccccg 240  
 ctaccaagc cgatcctgaa gaggaagaag gcgcagtcct actggtcatt ggctggccca 300  
 gctgcca 307

<210> 11494  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-D8  
  
 <400> 11494  
  
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 ttgccgttct accagcacgc tgcgcctaac gctggcacc ctttacaact gcaacaattg 180  
 ctgccattca accaacttgc ttgacaaac ccagcagcgt tctaccaaca acccatcatt 240  
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 at 302

<210> 11495  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-E1  
  
 <400> 11495  
  
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aggccgacaa ggctccaccg cctcatgacc agcacgccac cggcaacggc cacggctagc 180  
agaacacgcg ccaactgcgcg gtcggccaca acagcctgct caagagcgac gacctgtacc 240  
aggtaaaciaa gctgagcgca atgagtggat gaatctgacc cgcattctag cctctgaccg 300  
ccgggcaaga atga 314

<210> 11496  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 11496

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ctgaggggaa gaggctgtac tcgctggatg cgggctccat catccactcc ctctgcttct 180  
cgcccaaccg ctactggctc tgcgctgcga cccaggactc tgttaagatc tgggaccttg 240  
agtcgaagca cgtcgtgcag gacctcaagc ctgacatcca gatctccaag aaccagatcc 300  
tgtactgcac aagcttgagc tggagcgccg atggaagcac cctctacact ggctacaccg 360  
atgggtctat cagggctctg aagatctctg gatatggcta cgcangctag atgtcgaaat 420  
ccagtccagg gtcta 435

<210> 11497  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E2

<400> 11497

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caccctgag agaaccctg gttttgcgag aagaaggaa gccgctcgac gctcgctgat 180  
gttcgtagcg atgcacaaat cggaatctcc atcgctctca caaacatcga ttgggtttgt 240

ttatggaccg ataggtgacg atcgtgcaag cgatgtggtg ccaaccacaa gatgc 295

<210> 11498

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C7

<400> 11498

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ggtgtttcaa ctgtggagtt gatggtcact gggcaagaga ctgtaaagct ggtgactgga 120

aaaacaaatg ctaccgttgt ggagaaaggg gccatataga aagaaattgc cagaacagtc 180

ctaggagtct caggcgagag agaagttact cacgggtccc atctccccgc cgtggacggg 240

gccgcagtcg aagctatagc aggagcagga gccggagtcg gagctatagt cgatcaagat 300

ccctgtgtag atcttctatt ggaggtcgtc gtgaccgtta ctgttggtag atcaaggagt 360

cctagctata gctggaagcc ctatgcgac 390

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<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E5

<400> 11499

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tatgtctcctt ggtctttctg caagtgtctg taccgcaacc attttccac aatgtcaca 120

agctectata gcttcctttc ttccccata cctctcacca gcggtgtctt cagtatgtga 180

aaacccaatt cttcaaccct acaggatcca acaggcaatc gcagcaggca tcttaccttt 240

atcaccttg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 300

gttggcacia aacatgaagg cacaacaact acaacaactt g 341

<210> 11500

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A7

<400> 11500

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cgaggaggaa gacaaccggc gacgcggggg gaacatgggg aagacgccgg tgcggatgaa 120  
ggcggtcgtg tacgcgtgtg cgcccttcca gcagaaagta atgccggggc tgtggaagga 180  
catcaccacc aagatccaac acaaggtcac cgagaactgg atcttcggca cgcttcttct 240  
taaccccgtc gtcggcacct accaataccc catgtggtac aaggagccag aaaagctttt 300  
ccac 304

<210> 11501

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A8

<400> 11501

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tatatctagc ttgaacgatt gtcaggaccg atggcgatga cagattccaa gctgggttaga 180  
tcaccttgtc gggcttaggc ggaatgtata tttgctgctc atgatattat agtatgtaag 240  
accataaacg gtgagttggt gatgcgctat atatcttgga ataaagctca acttcttcca 300  
aaa 303

<210> 11502

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A9

<400> 11502

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aaccctgctt gaggctctag accagatcac cgagcataat aggcctttac acaaacctct 180

gcttctgcc a cttcagcatg cacacatgat t gatgccatt agaacagtac caacatgacc 240  
cagaggagac tcataacatg aatcctggta tggaaactcac ctaacgtgca actgagctct 300  
atacttacga ggattatgcc tatatgcacc aaagagcact tcaggaaagc ttttaccatg 360  
ac 362

<210> 11503  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B12

<400> 11503

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cgccggatcg tccaagacct acccagcaca tgctggcacc gtccgtatga actgcttcat 120  
cgtcatcaag aaccgacct gcacggctgt ggaggtttct accttaaaga ctgataagca 180  
tggatcatgcc aaatgctact ttgtagccat agatatatcc aacggtaaaa agttcgaata 240  
tattggctct tcatgacaca tactgcatat tacagctgtg aaccgtactg agtatcacat 300  
gattgatata tcagactatg gattagcgag ctttcttact tcagatggta acactaatga 360  
tgatcttaaa ctcccaactg attatactct tgtagcccag atc 403

<210> 11504  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-B2

<400> 11504

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ttgcagagct ggaagagatg ggatttgatg acacagagat gaacaaggag ctgcttgcca 180  
agaatgaggg aagcatcaag cgagctgtga tggagctcat tgccaggag aagaaggaca 240  
agtgaagatc gtgtgctatc taagtatata ttcgtaaata atgagacggc tgtgccca 297

<210> 11505

<211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B6  
  
 <400> 11505  
  
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 aatcgaaggc cgacgctggg gcgtccaaga cctaccgcga gcaggctggc accgtccgta 180  
 agaacggctt catcgtcac aagaaccgtc cctgcaaggt tgtggaggtt tctacctcca 240  
 agactggtaa gcatggccac gccaaatgcc actttgtcgc catagacata ttcaatggga 300  
 aaaa 304

<210> 11506  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B7  
  
 <400> 11506  
  
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 cagacgctaa gaagcttaag atttggttgg gaaagaacaa agtagaagaa gatgaaagtg 180  
 atagcgatag tgacagtgc atggatgatg aggacagtga agatcaggag agcgcagatg 240  
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 ttgat 305

<210> 11507  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B9  
  
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ttcgggtgcc gacaattgta tccgaaagat ttggctacct tacgctcctt ggtctatgtg 120  
cacatgctgc taccgcaacc atttttccac aatgcttaca agctactata gcttccttc 180  
ttgcaacata catctcacca gccctatatg caactgcaga caacccaatt aggcaacatt 240  
cctggatcac aacttgcagt ctcaacaagc atcttaccta tatcaccctc agtcacgcga 300  
acacacgcaa gacgtatcac aagatgtacc tactgtcgct acctgggaac aaccattag 360  
gtctcaccaa ctactataac tagtgtagc aacacttgct gcatactttc aaccaacatg 420  
agtacac 427

<210> 11508  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C1

<400> 11508

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gctgccagcg ccagcgccgg gacctcctgc gtgccggggg gggccatccc gcacaacccg 180  
ctcccagact gccgctggta cgtgaccagc cggacctgcg gcatcggggc gcgcctcccg 240  
tggccggagc tgaagaggag atgctgccgg gagctggcgg acatcccggc gtactgc 297

<210> 11509  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C10

<400> 11509

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actactttta cacaccaatt ccattcaaca acatctttct acattac 167

<210> 11510  
<211> 369  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C11

<400> 11510

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gacacattca aatctcctgc gtgtgcggta acttccacga ttagtgatca acatcattct 120

acacaaaccc tggatcaatc cctatatgga cccctaccat acacccttct acaatatacc 180

tgaacggcaa cgctaatacag ttgctgcaag agaaggctta aagcttactt cttgactact 240

tgtacaggac tccagtacgc attcacatca aacactctgt atcagatgca aagcccatca 300

cgcttaccat taagaacat gactacatat gtgacattaa catactgaaa gagtaccttg 360

gcaaagata 369

<210> 11511

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A6

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cttgtcggag gaggcgaggt cgctggggcc caagggatcg gaggcgcaca aagcggcgggt 120

gatcggggac accatcggcg acccgctcaa ggacacctcc ggaccgtccc tcaacatcct 180

catcaagctt atggccgtgg agtcgctcgt cttecgcccc ttcttcgccg cgcacggtgg 240

catcatcttc gaccacctct gatcaatgca tgctgctgac gttccatggc aaaggcgccg 300

gc 302

<210> 11512

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C5

<400> 11512

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caggaacagt tgttgccgtt ctacctgcac gctgcgccta acgttggcac cctcttacia 120  
 ctgcaacaat tgctgccatt caaccaacat gctttgacaa acccaacagc gttctaccaa 180  
 caacccatca ttggtggtgc cctcttttag attgcttatg agttatagtt caataataaa 240  
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<210> 11513  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C6

<400> 11513

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 cggcggggcca aggaagaagt cgggtgctgag gtccgtgaag gccggtctcc agttccccgt 180  
 cggccgcctc gggcgctact tgaagaaggc ccgctacgcg cagcgtgtcg gcaccggcgc 240  
 ccccgctctac ctgcgcgctg tcctcgaata cctcgccgct gaggttcttg agctcgccgg 300  
 taat 304

<210> 11514  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H1

<400> 11514

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 accagggctc ccaaggccat caatgagaag acctgcaatg ctctcctctt gaaggtgaac 180  
 caaatcgggt ctgtgaccga gagtatcgaa gctgtcagga tgtccaagcg cgccggatgg 240  
 ggagtgatgg caagccacag gagtggcgag acagaggaca ccttcattgc tgacctctca 300  
 gttggcctgt ctacgggcca aatcaagacg ggagctcctt gccggtctga gcgcctggcc 360  
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gcaaagttca gggcacc

437

<210> 11515

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H12

<400> 11515

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tgtccaaccc gatgcgggag atcaaggtgc agaagctcgt cctcaatata tccgtcggcg 180

agagcggcga ccgtctcacc cgcgccgcaa aggtgctcga gcagctcagc ggccagaccc 240

ccgtcttctc caaggcgagg tacacggtgc ggctgctcgg catccggcgt aacgagaaga 300

tcgcctgcta cgtcacggcg aggggagaga aggccatgca gctgcttgag agcggcctca 360

aggtcaagga gtacgagct 379

<210> 11516

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H2

<400> 11516

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tcgttcttca tgccgatgct atccacaggg gtggtggcca ggtcattcca actgccagga 120

gggtcattta tgcttctcag ctcacagcca agccgaggct gctggaacca gtttacctgg 180

tggagatcca gggcccagaa aatgcacttg gtggcatata cgggtgttctg aaccagaaga 240

gaggacatgt attcgaggag atgcaaaggc ctggtacccc gctctacaac atcaaggctt 300

tcctccctgt catcgagtcc tttgggttct caagccagct gagggctgca acctctggct 360

aggcggtccc ccagtgtgtg tttgaccact gggacatgat gggctcggat cctttggagg 420

ctggctccca ggct 434

<210> 11517

<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H3

<400> 11517

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gggtcaatca tgcttctaca gtcacaaact caattgcagc tgctggatcc agttcaccta 180  
gctctagatc catatcctac agaaactgca actactacca tatcacgcgt ttctaccgaa 240  
accatacatg catcttgaca cacaccaggc gctgtacctc tactctacaa gctctacgtt 300  
acgctggctg tcttttacta ctgcgacaat tgctgccatt taaccaactt gatctgacat 360  
aacgcgtagt gttatagcga caacgaataa tgggacatga 400

<210> 11518  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H4

<400> 11518

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accataccac taattttatt ataccactag aaccagcttc tcaactagctt ctccaccagg 180  
gtttgacttt gtaacatagg agatacagtg tgctcttctg gaacttcac cccaacatca 240  
tctcactga tcttgatgag tacttggcac ttcagtgcgc gcttcaaata caacattatc 300  
tcttgatttg tgactctggt ttggggctcg ggctatatca gtttgcatat tatctggagc 360  
cttctgaagc aactctttta ttatagcatc agaatgtaag gtttctatct ctatgggtag 420  
atcactgact gacgc 435

<210> 11519  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H5

<400> 11519

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ctggcaaacc tttctcccta ctctcagcaa caacaatttc ttccattcaa ccaactgtct 180  
aactgaacc ctgctgctta tttgcagcaa caactattac cattcagcca gctagctact 240  
gcctactctc agcaacaaca actttttcca ttttaaccaat tggccgcact gaaccccgt 300  
gcttatttgc agcagcaaat actactacca ttttagccagc tagctgcagc aaaccgtgct 360  
tgctttttga cacagcaaca gttgctgctt ttctaccagc agtttgcggc taaccccgca 420  
accctettac aacta 435

<210> 11520

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H8

<400> 11520

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gaccatacca ctaattttat tataccaacta caaccaactt ctactagct tctcaccaca 180  
ggtttgactt tgtaacatat gagatacagt gtgctcttct ggaacttcat cccaacatc 240  
atcctcactg atcttggtca atacttggca cttcactgac agattcaaat acaacattat 300  
ctactggatt gtgactctgt tatagaggtc gtggctatat caagttgcat attaattctga 360  
gccttt 366

<210> 11521

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-026-Q1-K1-A1

<400> 11521

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caccagaagg gngaacgggg ggaacngcga ggcggcgaga acacaaaaag ccgaacaaag 120  
cggaggcgca cgaaacaagc ancagcagng gcgacgcaaa cgacccggac aggaagaccc 180  
accgcagaag 190

<210> 11522  
<211> 123  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-A10  
<400> 11522

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ctcgtgctcc ctacgacct ctacaactca gcgatccgc cgactcgcct atcgatggcg 120  
tca 123

<210> 11523  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-A11  
<400> 11523

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ccttttcaca tccgaacact ccttagtgtg ctgggctcct cttctgcggg gccacagcaa 120  
tccgcagata ttagctgact cgtgaccgac tgctatagct acccttcttc cgccatgcct 180  
gctatcaaat gtagttatag tccgacgaag cacaccatgt aagacgctat aaggttcaac 240  
accattgtcc gacgggcaac tttcacacat taccatttc tggtaaaaag aagtcggaac 300  
gaatcatgct gcactagatt gtacaaacca agagctcaca ccatgttgta caactactac 360  
taacgtagag ccatctactt tgacca 386

<210> 11524  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A12

<400> 11524

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acgatacgcac ggagggtacg ggatgacggg cttccacttc ctcaactgcg ccttcctcac 120  
cttcggggcct caggtcgtct actactccgc cagccccctg tcagagtatg atacaatcgg 180  
cactttctata aaagcagctg ctgttttatct tggaactgcg cttgtaaagc ttgtttgctt 240  
ggcaacattg ctcaaagtac ctgagaatga tagctttgac ccctatcagg agttaatgaa 300  
agttttttatt ggattcatag atgtagctgg actgtatttt gctttgaccc agctgaccca 360  
cagaaacatc tctcagaatc ataagttcca ggctgttggt cttgggtggg cttttgctga 420  
ttcagttttg caccgac 437

<210> 11525

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A2

<400> 11525

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ggccaatgat atcaaaatcg aaacctactg cttcaaggcc aaatgttgca cgagcgccag 180  
acacctcacc tgatgccgct gcttcataac ctgctgggtcc tgaagattcc acggctgcac 240  
atggtgttcg aaactccaca ggtcctgata tcaccagcca attgacagct tcgaac 296

<210> 11526

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-A4

<400> 11526

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gcgaggagct gtagagacgc cggcgacgcg aagcaaccgc ccgatcggag ccgcggtga 120

gcaggagggga gccggagatg gtgggtctcg tcggcggcag cacggcgcg gaggagcacg 180  
tcgtcgccaa cgccggaggg gaggcagagt acgtgcgccg catgcaccgc cacgcgccga 240  
ccgagcacca gtgcacctcc accctcgtca agcacatcaa ggcgcccgtc cacctcgtgt 300  
g 301

<210> 11527  
<211> 307  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-026-Q1-K1-A5  
<400> 11527

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gaactgcttg gcgatatagc aaaaaagcc gaacaaagtg gttcttcatg aaacaagcat 120  
cagtatttgc gatgcaaact tcccggactg gatgttcctt ctccagaagat tttagggtgat 180  
cttgcaattgt tgccctgtgg cttcggattt gaatacgttc tctgttttgt tctgttctgt 240  
tcttgccagt tgtgatggaa gatccactca aggccgaatt gcacgagtaa ccaaagttat 300  
agttctc 307

<210> 11528  
<211> 396  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-G9  
<400> 11528

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aatgatcgat gagatggatt cccatataga gaacgccgtt gtagcgactt ctcatgctaa 120  
aggccagctt tcaaaggctg ctaaaactca gaagtcgaac tcttctctga tatgctcgtt 180  
gctcgatatt ttcagagtgg tctgtctcat agtgataata gtacttgcag cctaaaagct 240  
tggaaggaca cctgggggtc ccaaactctga tcgagagctt attgcgacaa attccttcat 300  
aagctatatt tgetgtgctg ctaagaatga ttcttggtac ccaagcgggtg attggcgctc 360  
tgcttggtgt gtggcagcat atgtcgtgat gatcaa 396



<210> 11529  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F5

<400> 11529

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gccacagctt gcagatggaa tggcagaagc tgttgcaaac attgctgctt tcttgagaga 60
acaacatttg ttgccatttt acccacaggt tgtgggaaac attaatgcct tcttgcaaca 120
gcaacaattg ctaccattct acccacagaa tgcggcaaac attgttgctt tcttacaaca 180
acaacaattg ctgccattta gccaacatgc tttgacgaat cctaccacct tattgcaacc 240
gccaccatc ggtggtgcca tcttctagat tttttatgat ttatactgta ataataaagt 300
tctcatgctg                                     310
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<210> 11530  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F6

<400> 11530

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ctttatcacc ctgttctctc caacaatcat cagccctatt acagcagtta cctttggtgc 120
atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaaccttg 180
ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 240
ctgcttattt gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat 300
ttcttccatt caaccaactg gcatcattga actctctgct ttatttacag cagcaacaac 360
tactaccatt cagccagcta gctggtgtga gccctgctgc cttcttgaca catcaacagt 420
tattgccgt                                     429
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<210> 11531  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F7

<400> 11531

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atgctcacia gtcctatag ctcccttct tccccgtac ctctcaccag cgggtgtctt 180  
ggatatgtgaa aacccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat 240  
cttaccttta tcaccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt 300  
ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgctgcc tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa 420  
ctctgctgct tatttg 436

<210> 11532

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F8

<400> 11532

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caagcccacc agcaaagcag atcaagttag gacttcgact ccaagcactg tttaccagga 120  
aaataatccc tctgatagg ttcgatttgg ttgccacata cccttgtagt gcagactaga 180  
ctaatatatg taatcatcat cataataatt gataaaccat cccactatgg ataggttagg 240  
tcactccaag cactgtttta ctgtattcat cctccaaaag catgctaatt cccgttttagt 300  
tcgatggact aaacattaat gtctctatct tagtctctaa attgtcaaac gatgagacta 360  
aaataaagac taaactgttt aggatatagt cactcaaaag gactaaaaat gactaaacca 420  
tattaattct a 431

<210> 11533

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F9

<400> 11533

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tccgaccatc tcaacctaaa actggtggga acggcggcca acccgtctag ggcttggccc 120

tggcggtttc tgagcctaga acatctttgc attttggaga gtcttcactt ggagctattg 180

gacaggcttc attcctttca acgagatggc acgttagtct ggtctctcgc ttgtgaggga 240

tcgagccaag accggagcgc tgaaacgtct gactctgagt tcatcgaaaa 290

<210> 11534

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G1

<400> 11534

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tcgtagttgt cctgatggag aagcatcaac acaacaagat ggagtaattc ttctttttga 120

tgcagaaaagc tcaaacccca ttgcctcctg gtcggtaaag aaggcatcgg gtggcagcat 180

ttctttttgta aaaggtgacg tcccttttga tgcaaagtct gatagttcga gagacaaaga 240

gccaatgttg cttgattatg taaatggttc tcatgaatac gccatctttg atccccggga 300

gagtgaggag gtggtcatta gcaagaacaa gcacaagaag attcaagctg aggaacctgc 360

accaatcggc tacgcttcta tttacggaga gcttacaaaa ct 402

<210> 11535

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G10

<400> 11535

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gcagcaggtc caaaagcagg tctgggacag taggaccccc atttctgtca ctggaagcga 120

gcaacagcag gaagctgcca atgggaagcc caatccgtct gtaccaaacg gtgtccctgc 180

agaggtgaag gcggcgaagg cttctgcaga gaacggcacc gccactccag ctatttccta 240

cgcgggcaaag gtggcccaag cagcaacaga gaaacctgtg ctgcgcaacg gagtcgctaa 300  
gaccgggttag ctggaccgcc caaccgatgc tccatagcta gccgcgagcg acggtcgacg 360  
tccccaaagag ctgcaccgaa tcaactgtaca agggaaactg gtga 404

<210> 11536  
<211> 398  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-G11  
<400> 11536

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tgggggagta cgaggacggc gacggcgacg tgggtgcaggt ggacctgatg gagtccaaga 120  
cggcgcgcgg cccgccgacg gggcggtgga cgccgatgcg cgagtcctgg ggctccgtct 180  
ggcgcatgga caccaaccac cgcatgcagg cgcccttctg catccgcata cgcaacgagt 240  
ccggcaagac gctcgtcgac aacaacgtca tcccggacaa ctggcgcccc aacaccttgt 300  
accgctcctt cgtccagtac cgctagctga tcgggatgcc tgccctgccc tgccctgacc 360  
gcaattggag cttgctgacg ctggggctct acttggt 398

<210> 11537  
<211> 372  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-G12  
<400> 11537

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gggtcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg 120  
gcggcctcgc ctggggccacg gacgaccact cctccacaa cgccttcagc acctacggcg 180  
aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtccgcg ggcttcggct 240  
tcgtcacctt cttcacggag gaggcgatgc ggaacgccat cgagggcagc aacggcaagg 300  
agctggacgg tcgcaacatc accgtcaacg agggccagtc ccgctgcggg cgtggaggcg 360  
gcggcagtgg gt 372

<210> 11538  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G2

<400> 11538

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 tgaactctga tgcttatgcy caacatcaac taccattcag tcagctagct gctgcctaca 120  
 cgcagcaata tcttccatac aaccaactgg caccattgaa ctctgatgct gatttacaac 180  
 agcaacaact accaccattc agccagctag ctgatgtgag ccctattgcc tacttgacac 240  
 agcaacattt gttgccggtc tacctgcacg ctgcgcctaa cgctggcacc atcttacaac 300  
 tgctacaatt gctgccattc aaccaacttg ctatgacaaa cccaacagcg ttctaccaac 360  
 aa 362

<210> 11539  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G3

<400> 11539

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 tggcccttcg gttcgggttc gggttcgtga gggtctccgg gggtcggggt cgtgggtgag 120  
 cggatcgaga tggcggcgtc ggatggtgag taccgctgct tcgtcggcgg cctcgctgg 180  
 gccacggacg accactccct acacaacgcc ttcagcacct acggggaggt cctcgagtcc 240  
 aagatcatcc tctatcggga gacgcatagg ttctcgcgct tcggcttcgt caccttggtc 300  
 acggtggaag cgatgcggaa cgccatcgac ggcatgaact gcaaggagct ggacggccgg 360  
 aacatcacgg tcaacga 377

<210> 11540  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G4

<400> 11540

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caactcgtgc tagcaaacct tgctgcctac tctcagcaac agcagttacc tttggtgcat 180  
ttgttggcac aaaacatcag ggcacaacaa ctacaacaac tcgtgctagc aaaccttgct 240  
gcctactctc agcaacaaca gtttctgcca ttcaaccaac tagctgcatt gaactctgct 300  
gcttatttgc agcaacaaca actactacca ttcagccagc tagctgctgc ctacccccgg 360  
caatttcttc cattcaacca actggcagca ttgaactctc atgcttatgt acaacaacaa 420  
caactactac cattca 436

<210> 11541

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G6

<400> 11541

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tccatgtgct agattcattc catggcaata gcattgcgtc gtgcaatgtg aagccagtgg 180  
taaccaactc aacactggag gcgtcgttca gccctgatgg aaaccatata atatctggct 240  
ccggtgacgg tagtgtttat gcttggaatg ttaggagtgg aaaggtcgcg cgctggggaa 300  
gcacagacga cgaaccgtcg ctggttaagggt gggctccagg atccttgatg ttcgtgacag 360  
gatcatcaga actgtcatgc tgggttccgg acctgtctaa gctgggatcc tttaccatta 420  
gcaagtaggt gaaa 434

<210> 11542

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G7

<400> 11542

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aaagatacac ctatgggaag catatcgtgg cacgtgttga gaagcttatt gctgcaggag 120  
aacggcgcac tggtgcccc aacctcttgc gagatggcaa taaagctata tacaggctgc 180  
agaataacac ctgtacagac agacagggat agcgaggcct agctttttac cattaccagt 240  
agtcggtaat attgagcgac ggagaggta aaaaaggctc ccaaatacctt tgatgtaaat 300  
aaaggatagc cgctggaaat aaataaaaag aatgagaaaa gatgaagaga ttttgcttgc 360  
ccttgaggga agagtgtat atttgtgtgg tttatcttcc cctcttgaag cagatggata 420  
aatgtttt 428

<210> 11543

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F4

<400> 11543

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tccaccgaga aggctgttgg cgcagccgcc gtcgtcggca gccacaccgc taagtggatg 180  
caggacacga gcaagaagtc gccaatggaa ctgatcaacg aggtacctcc aatcaagggtt 240  
gatggtcgca ttgccgtctg tgaaggggct tctgaaggty ttggacttgg ccaccaaatc 300  
gagtacatct gccttgatct ggaggcacct aatgtgtgca agtactgtgg tctccgttat 360  
gttcaagttc accatcacta aattgagaag ataatgctgt ctaccgctgc agaagctgag 420  
ttgaggagtt tatgtg 436

<210> 11544

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-025-Q1-K1-D9

<400> 11544

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agggaggcct tccattcacc cttctccaat tgacctgaaa gggaaggctt atgagttgct 180

gcgagagaag gcttcaagct tcctccttga cgacttctac aggactccag gaggcattca 240

gttcgaaggc cctgggttcag atgcaaagcc catcacgctg accattgaga accaggacta 300

catgggtgac attgagatac tgaaagagta ccttggcaag gttaggacca tgggtgaagcc 360

agngtgctcc cgggagat 378

<210> 11545

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E1

<400> 11545

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cagcaatttc ttccattcaa ccaactagca gcattgaact ctgctgctta ttacagcag 120

caacaactac taccattcag ccagctagct gatgtgagcc ctgctgcctt cttgacacaa 180

caacagttgt tgccgttcta cctacacgct atgcctaacg ctggcaccct cttacaactg 240

caacaattgc tgccattcaa ccaacttgct ttgacaaacc cagcagtgtt ctaccaacaa 300

cccatcattg gtgggtgccct cttttagatt gcttatgagt tatagttcaa taatgaagtt 360

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<210> 11546

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E12

<400> 11546

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ggggaacaga acagcatgaa gatggtcacg gttctcgtcg tgtgcctggc tctgtcagct 120



gccagcgccct ctgcaatgca gatgccctgc ccctgcgcgg ggctgcaggg cttgtacggc 180  
gctggcgccg gctgacgac gatgatgggc gccggcgggc tgtacccta cgcggagtac 240  
ctgaggcagc cgcagtgcag cccgctggcg gcggcgccct actacgcgg gtgtgggcag 300  
acgagcgcca tgtaccagcc gctccggcaa cagtgtgcc agcagcagat gaggatgatg 360  
gacgtgcagt ccgtcgcgca gcagctgcag atgatgatgc agcttgagcg t 411

<210> 11547  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E2

<400> 11547

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cgacagtttc ataaacaagt tcgtctacta acacctatac actctcttaa ttatatacac 120  
ctaataacat ctactaccat tcattcatat taatttatat gatataatttt tacttataat 180  
aacaacaaca t 191

<210> 11548  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E3

<400> 11548

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gtgcatacac ttcttgagc tacttgtgga gttaacttgc agtgcattgg tgaagcagag 120  
aacattcaac aagagaaata caaagaaacc aatgggagat tgattgctga aaatactatt 180  
tcagagcaga agtgtgaaga tagatctaata tccagtcggt caaattcatg tgctactccg 240  
gtgactgtgg atcaatgttc tcatttatct aatgagattg ggaaagggtga caactgttta 300  
tctagtgaag tttctgttgg agctgctccc ataacaggca aaactgaatc tagtttgaca 360  
tctgttcatt gcgctaacca agaggatgag aaagcttacg cagccctgt ggacactaaa 420  
ataccttttag tcatta 436

<210> 11549  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E9

<400> 11549

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 tcggcgacgc cgcggtctgt atggcgtgac cccccaccag gccgctgctg cgcacgcgcg 180  
 agccgccaac cgcgccgggc acggcagcgg ggcccgcgcg cgcgctcgcg cccgggggcg 240  
 gccgagggcg gaggccgcct gaccggtcgg tggccggcgc cgaggtgatc ctgcgccggg 300  
 tcgctgccgc ggtgatgatc atcgtcttct gctatatcag ggtcaccagg agaaacagcg 360  
 gcggcgggcg cggcgtatga gcgggagggga agcagc 396

<210> 11550  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F10

<400> 11550

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 gaaaactaca tcgggtgcta gtcgccagcg tgggtgcgtg cctgttgacg atagggcacg 180  
 cggggcgcgg gcagcttgta agcgttcgat cggccatgta gggcaactat acatctttgg 240  
 caggtctcca actctccatc atcctccgtg ggagagaaga tggtaatgga gtgcgtgtgt 300  
 atgtatgtgt atgccaagc cgcgcgcgcg cggtcttggg cgagtcacag tagagatgca 360  
 atatcatgta tccagtatct ttcttacaac acaaacagtg agaaattatt tagagaaaaa 420

<210> 11551  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F11

<400> 11551

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taaattactc atctattttg cctcccactg gttatattac tacacataca gatccctaca 180  
ccaactgata cagcaccctc caacattgcc agttctggag ctaatgctgc agaagctctg 240  
gctctggctc tcgtgctcac actctctgtg gctcaacttt tatagccacg cactctcggg 300  
gctgaaccgg atccttatga acccaagcga gtttatgcaa atctgggtacc ctacgcttgt 360  
taaccatttc aactggttcc 380

<210> 11552

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-025-Q1-K1-F12

<400> 11552

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tcgttctcgt cgtgtgectg gctctgtcag ctgccagcgc ctctgcaatg cagatgccct 120  
gcccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180  
gcgccggcgg gctgtacccc tacgcggagt acctgaggca gccgcagtgc agcccgtctg 240  
cggcggcgcc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300  
aacagtgtct ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
agatgatgat gcagcttgag cgtgccgctg ccgncagcag cagcctgtac gagccaactc 420  
tgatgcagca acagc 435

<210> 11553

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F2

<400> 11553

gaagacacac atatgtacag atggaactac aatactctcc aagagggtaca gcttcatgga 60  
tcagcattta ggaccttctt ggacatagct ggtgacaact taagtggcaa gattttcacc 120  
gaggcatttg atgcggtctg cttccccctt acactcttct caagtttatt tgaacctgga 180  
tggtcttctg ggagttcagc agtctccatt aagggccttt tatcatcgct ggtggaagga 240  
ggcgctgaca atgtaaataca gtgttttctt gaagcagcgc gctttggaag tactgaactt 300  
gtacgcattc tgctgaaggc cgcatatcag aatagcttgg ctgtggacac cgatctggct 360  
ctagtgtatg cctctcatta ctgcaagttc aaaacaatgg aatgcctagt tgatgaaggg 420  
aacgtgagtt cttt 434

<210> 11554  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-F3

<400> 11554

cccacgcgtc cgcccacgcg tccgcttttt gccctgtttt ctaatgtacc gtggttgtga 60  
accggtcaat gtgatctgaa ataaaacatt gcgtgccaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aataaaaaaa aaaaaaaaaa aaaaaataa aaaaaattaa gatccaacat gttaaacaaa 240  
actggaatct gacaaaatat tagtcttaaa ctctaaaaaa tatcaggcct atatccgcat 300  
ttaaacaagt ggaatatctt aaaaaacgtc attaaagaac attaattaca acagcttgta 360  
attccaaata gctaattgggt actttt 386

<210> 11555  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C5

<400> 11555

gcaaattgca ccaagaaatc cattgagagg ccgccgacag gggaattaat ggcggcgggg 60  
tctagcagca gccaccgccg cctcatactc gcagccgacg tctgtctctc cgtgctcgcg 120

gctgccagcg ccagcgccgg gacctcctgc atgccctggt gggccatccc gcacaacccg 180  
 ctcacgagct gccgctggta catgaccagc cagacctgca gcataggacc gcgcctcccg 240  
 aggccgcagc tgaacaggag atgctgccga tagctggcgg acatcacggc gtactgccgg 300  
 tgcacggcgc tgagcatcct catggacagc acggacccat c 341

<210> 11556  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C6

<400> 11556

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 ttttgcttcc ttatgtcctt tggctcttct gcaagtgtct ctaccgcaac cattttccca 120  
 caatgtcac aagctcctat agcttccttt cttcccccat acctctcacc agcgggtgtct 180  
 tcagtatgtg aaaacccaat tcttcaacct tacaggatcc aacaggcaat cgcagcaggc 240  
 atcttacctt tatcaccctt gttcctccaa caaccgtcag ccctattaca gcagttacct 300  
 ttggtgcatt tgttggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360  
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420  
 aactctgctg cttatt 436

<210> 11557  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C8

<400> 11557

caccgtcgtc acctacttta tctcactact caattgaaac ggcgccataa gtatgtagag 60  
 ccttgctctc tgactcctgg acgtctactc aaacagccaa gcacgctccc agacctaccg 120  
 atcattacac tacctcatat tccacttcga ctattcccca aaagcaacga tcatcaataa 180  
 ccataaccaa tgaataagct gacacatga taatcctcag ccatcacata gactatcgta 240  
 ctgaacattc tgagacctga tgcacc 266

<210> 11558  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C9

<400> 11558

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agttgagagt gaccaatggt tttggtggtg ttgttctcag ccctgttgga acacagtgtg 120  
tatccaagga agatcatcct attgtgcaaa gaaaaggatt ggctgtggtt gattgttcct 180  
gggcacgttt aagtgatgtc ccctttgtga aactatgttg cgggtgctcct cgtctcttac 240  
catggttggg agcagcaaat cctgtgaact atggccgccc atgtgaactg tcatgtgtgg 300  
aagctttatc agcagccctc ataatatgtg gggaggaaga tacagcacat ttgctgcttg 360  
ggaaatttaa atgggggtcac gcattcttgt ctctaaacag agatctcctg aaagcatact 420  
tccaatgt 428

<210> 11559  
<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-025-Q1-K1-D2

<400> 11559

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cgacgtcgag gcgcgcccga ccaagcgcgt cagcctctcg cccgacagcc cgtcggggtc 120  
ggggtcgggg tcagggtcag ggtccgggtc cgggtccggg tccgaccgta gcgacctgag 180  
ccacggcgcc ggccaggttt accgcccagt ggcgcggtcc ggcggggttcg agccggcgga 240  
ctgcgcgatg agccgtccgc tggaggaaga ggaggaggaa aaggaggacc cgctcacctc 300  
cctcagcctc tcgcttccag gcacggacca ggggttccac cagaccgcg cccacagcca 360  
gttccaggag ctcccggcgt cngccgcctc gcccttcccg cctccgccgc cggttctctc 420  
ggcgtaccgc ttca 434

<210> 11560  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-D3  
  
 <400> 11560  
  
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 gtgcaacctg gccaccatca ggcgcgtcgc cgaatgcccc tggattctcg gcggcggaac 120  
 gatgccctcc aagtaactgc gaagagcata gtgcatgagg aatgagcttg tagctagctc 180  
 atatgtctga ataataagca cagcacgaag atgaatgcat ttctcggatc gttcatccgg 240  
 aacaataatt aaaggggatc cggatttggt cttgtgat 278

<210> 11561  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-D4  
  
 <400> 11561  
  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaatt taattaaana aataaaaaaaaa aaaaaaaaaa 60  
 agaaatgtat aaaaaaaga gtaaaaaaaaa atataaataa acacatatata actatcttat 120  
 aaaataaaat aaatataaat aaactgtact caatttttaca atttcatctc ttgtaaaacc 180  
 ttgtctttac tcaattttat taccttttag atcatccttt ttcatcata tggcgtatatt 240  
 ttcaagaagt gtaatcctat acaattttcc aaaattttta ttacctaata ggaccattca 300  
 acattccact tttgctacat attaatacctg ctagcttatt ctgcttatcc acagattaat 360  
 ccttataactt gcaatttcca ttata 385

<210> 11562  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-025-Q1-K1-D5  
  
 <400> 11562

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gagtgggtcga acgggaccgc aaggaggacc tgcggtggtg caagcaggcg tgcgagtggc 120  
agtacggaaa ggacacccccg cggaagaggg aatgcgagag cgagtgccgc gagcggcacc 180  
agcaagctga cgcgggagag gacggcgaca gcggcgtgga cgcctacgtc tcccgtccg 240  
ggagggggcga gtgccggcgc cagtgcctgc gccgtcacga gggccagccg tgggagaccc 300  
aggagtgcac gaagcgggtgc cgtcgtcgtg gactggccgt cgacatggag caagagtacg 360  
gtcgcggcag cgagagcgcg ggcaag 386

<210> 11563  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-025-Q1-K1-D7  
<400> 11563

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agggacgtcc ccgtggagcg cgacctgctg cggaagctgc tggagcccag ggtcatatcg 120  
ccccgggcgg tgcgccccgt gtggtctgcc atccacgtcg ggtgcatcca ccgcaccgac 180  
gacgcggcct gcaccgacgc cggcgtctcg aagacggcgg ttcaggtgga ggcggagctg 240  
gaggtcgacg cgctcccggc ggtggtctcc gactccggca accgcgtncg gctcgtgaac 300  
gacgcgtaca aggagatggt ggggcagccc gagtgcccggt ggctcgacgc cgtggctgcc 360  
acgtcgagga ggatcagcgg ggaggtggcg ctggtggtag cggaccggtc ctctctgccg 420  
gactcg 426

<210> 11564  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-C2  
<400> 11564

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ttcctgaggg accagtgcag cccggcgggc acgccctacg gctcgccaca gtgccaggcg 120  
ctgcagcagc agtgctgcca ccagatcagg cagggtggagc cgctgcaccg gtaccaggcg 180  
acatacgggtg tggctctgca gtccttcctg cagcagcagc cgcagggcga gctcgcgggc 240  
ctgatggcgg cccaggtagc gcagcagctg acggcgatgt gcggtctgca gctgcagcag 300  
ccaggtcctt gcccttgcaa cgcagctgcc ggcggtgtct actactgagg aaactatgta 360  
ctgtagtaat aatgtaatgg agccgctgac tagctaccta tagctagttc actcgtttag 420  
cggcgatgag taac 434

<210> 11565  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A6

<400> 11565  
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accgcggggac cattgcaact ctacatgcca aacatggtgg cgtcaggtgg cagcagatcg 180  
acgccctctc tcgccttctc tctgtctgcg cctggacagc ctattacgag cacagctctt 240  
ggcgggtcctt ttggtcctaa cactcgact gcatggggca attcagatat ggctgctgcg 300  
tcgtactctc agcctgaccg catgggcatg gatcaacaag caggaaccgg ttctgccatg 360  
aatctgacaa ttgggtgtga tcccaatgcc cagcagccac caccaaaata tgtcaaaatc 420  
tgggaggggtg ac 432

<210> 11566  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A9

<400> 11566  
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gtgctatgaa agtgctcatg aacctttgtg tctccgtaaa ttaaagaact cttcctgtgc 180  
gccactcaca agtatagtca gacgagagct ttgagacaac aggcattcac tatgggtcaa 240  
cctgtccgct ctggaccata ggaaccagtc aagcacagat cactoccaga acaaaagcag 300  
gtaaattctgg cattcgttcg ctatTTTTTg cttttttatg ggtcaagcta tgatggtaaa 360  
acaatcatg 369

<210> 11567  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B10

<400> 11567

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cagtacccat ggtgagtacc tcacaggatg tatctggtgc gaggagcctc attcctcctt 180  
ttcaagatcc ccagcagaga acaggaagag attcttccat cgggtccact tcacaagaac 240  
tgtgggggttc actaacgtca cacatgagat caagccaact tgggtccagta ctagcagtgg 300  
cgctgggtggc tatcattgtc ctattgcagg taaccatcat agttctgcta actaggtccc 360  
cccaggtcca gatggctcct cacgggatct cgacgggcag tttcgggtac agcaaagaaa 420  
g 421

<210> 11568  
<211> 169  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B11

<400> 11568

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acatatatca tctccctaatt attataacta ctaaaaatca tcttcaatgc caacctattc 120  
atccttatatc tatacattat catctttatc acttctatca taacatcta 169

<210> 11569

<211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-B12  
  
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 aagtagcagt acccatgggtg agtacctcac aggatgtatc tgatgcaaag agcctcattc 180  
 ctcccttttca agatcccca catagaacat gaagagattc ttacatcggg ttcacttcac 240  
 aagaactgtg gggttcacta acgtcacaca tgatatcaag ccaacttaat ccagtactag 300  
 cagtgcgct agtggctatc attgtcctat tgcaggtaac catcatagtt ctgctaacta 360  
 ggtcctccc 369

<210> 11570  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-025-Q1-K1-B2  
  
 <400> 11570  
  
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 ttgagactgg tgtcattaag cctgggatgg ttgttacttt tgggcctact ggtcttacta 180  
 ctgagggttaa gtccgttgag atgcacatg aggtctcca ggaggccctt cccggtgaca 240  
 atgttggtt caacgtgaag aatgttgctg tgaaggatct gaagcgtggg tatgtggcct 300  
 ccaactccaa ggatgaccct gccaaaggagg ctgctagctt tacctcccag gtcacatca 360  
 tgaaccaccc tggccagatt ggcaatggct atgccccagt tctggactgc cacacctcac 420  
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<210> 11571  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B3

<400> 11571

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gtaccgcgag tgccagcgca accacgcggc gtccgtctgc gggcacgccg tggacgggtg 180  
ccgcgagttc atggcgctcca gcgcggaggg cacggcggcg gcgctcacgt gcgccgcctg 240  
cgggtgccac cgcagcttac acaggcgcta ggttgcgacg gcgacggaga cggtcgccga 300  
ctgccgtgac cgcgcctaca ccacctgagg gtgaactcga cgaagagtcg tgatgtgcat 360  
tggtggaatg gttgtttaca gtggttggtc ttggatgatt tttgagtgga tttttattgc 420  
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<210> 11572

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B5

<400> 11572

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ccccattccc aggtaaccga cgccctgcac ctaatgggcc tcgccttagc cccatacgtg 180  
accgtcatcc cagccacatc gctgaccaca gcccagccc taacgtccat ggtctcaacg 240  
atcgtcctga tgatgatcct gcccgagggt gctaccgcac aggaaacaag tgaccattaa 300  
cgctacaccg cctcaactat caagtgtta actatgcaa gagcaaacad acccattact 360  
tgatagctgg atcactgccc tatctgatac atgaacttat atagcttgc 409

<210> 11573

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B7

<400> 11573

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ttttctcagt atcctcctct tggtcgattt gctgtccgtg acatgaggca aacggtggct 180  
gtcggagtca tcaagagtgt ggagaagaag gacccaactg gagccaaggt gacgaaggct 240  
gctgccaaga agaaatgata tatctggctg gtgacgaagg ctgctgcca gaagaaatga 300  
tctatctggc tgggtgctgtg cttgcttgtt ggttacctcg tggaagctta aaatatctcg 360  
tcttgttgac atccttgcag ttgtcgcgtg aacaagtaat ctatgatggc aatgtttgcc 420  
tggtcatga 429

<210> 11574

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B8

<400> 11574

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caagggtgcyg cccctgcyca gggcgctcaa ggggcttagg gcatggatca ccggccagag 180  
gaaagaccag tcccccgga ccagggccag catccccatt gtccaagtgt atccttcctt 240  
cgaaggcctg aatggcgag ccggtagctt ggtcaagtgg aaccccgtag ccaacgtcga 300  
cggcaaggac atctggactt tctgcygac catggacgta cctgtcaaca ccctgcatgc 360  
tcagggttac gtgtccatcg ggtgcgagcc gtgcaccagg cccgtccttg ccgggcaaca 420  
cgagcg 426

<210> 11575

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-B9

<400> 11575

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cctatagctt cccttcttcc ccatacctt ccatcaatga tagcttcagt atgtgaaaac 180  
ccagctcttc agccctatag gctccaacaa gcaatcgag caagcaacat acctttatca 240  
cccttgttgt ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 300  
agggcacagc agctgcagca actcgtgcta cctgtgatca accaagtagc tctggcaaac 360  
ctttctcctt actctcagca acaacaattt ctccattca accaactgtc tacactgaac 420  
cctgctgctt 430

<210> 11576  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C1

<400> 11576

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gccagggtgc caggteatct ccggccatt cgccggcgac gagcaccca ctagatcgac 120  
cgagctatgg acggcctgtg gcatctgggg gacgagctcc gcgggcagcc caagggtgtg 180  
gaggaccgcc agtgggtcgt catgacatcc aagctggcag agatcaccag gtccaggggc 240  
gagaggacga acgacctga ctacgccagg atgaacgccg gcccgcagc caagcagtgg 300  
ggcaaggcgg cgtcctacca gcaccacgac gagggcacga tggaccacca cgtcgggtctc 360  
agcctgaaga cgaacgatct caagatgaac g 391

<210> 11577  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C10

<400> 11577

attttgagca ttcagaaaca caccaagcga agcacattag caacaaccta acaacaaggg 60  
ctgccaagat attatccctc cttgcgttct ttgcgctttt tgcgagcgca acaaatgcgt 120  
tcattattcc acaatgctca cttgtctcaa gttccattat tacacagttc ctcccaccag 180

ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240  
 cggctagcgt cttacaacaa ccaatttccc agttgcaaca acaatccttg gcacatctaa 300  
 caatacaaac catcgcaacg caacagcaac aacaattcct accagcactg agccacctag 360  
 ccatggtgaa ccttgccgcc tacttgcaac agcagttgct tgcacaaac cc 412

<210> 11578  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-025-Q1-K1-A5

<400> 11578

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 gctctgcact gcacgcttga atgcaacctg ccctgcccgg gctgaggctg acggtgccc 120  
 gctgacacat atgcccgcgc tgtccctccg agcctgagag cgatgaccgc tgcgcgcccc 180  
 tataccggtg ggcaccaccc agtcaacgtt cgcacagtgc tgcagcagcg atgaggatga 240  
 tggacgtgca gtccgtggcg caccagctgc agatgatgat gcagcttgag cgtgccgctg 300  
 ccgncagcag cagcctgt 318

<210> 11579  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H1

<400> 11579

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 tgttgatggg aactcttctc tatggtgtga agtacacact tccagagtat ttatgcacct 120  
 ttcttggtgc cggcgggtgtg tctctctttg cgttgttgaa gacaagctcc aagacaatta 180  
 agaagcttgc caaccctaatt gcacctcttg gttacacatt gtgcttcttc aacttagctt 240  
 ttgatggata tactaactcg acccaagatt taataaagtc aaggtaccca aaaacaaacc 300  
 catgggatat aatgcttggc atgaacctct gggggaccat atataatgct gtaattatgt 360

ttgttgcgcc attactattc agtaactggc catatgcana tggttttgag gcattgagat 420  
 tttgcca 427

<210> 11580  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H10

<400> 11580

gccctacatg cttagcaaaa attttgggga tctatcaggt tactagtaag catgtaaagg 60  
 gtggcaagga gtcaaagatg gatttgcttg tgatggaaaa tcttttgttt ggacggaata 120  
 ttaccaggct ctatgatcta aagggatctt caaggtaag gtataatgca gattcaaattg 180  
 gtagcaacaa ggttcttctt gaccagaact taattgaagc aatgccaaact tcaccgattt 240  
 ttgttgggaa caaggcaaag cggctactgg aaagagctgt ttggaacgat acatctttcc 300  
 tagctggaat cgatgtgatg gactattcct tgcttgctgg agtcgacgag gagaaacatg 360  
 aactggtctt aggaattatt gattntatga ggcagtatac atggggac 407

<210> 11581  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H2

<400> 11581

ccgacgcgtc cgattttgag cattcataaa cacacctagc gaagcgcaact agcaacgacc 60  
 taacaacaat ggcttccaag acattatccc tcttgcgct tcttgccctt tttgtgagtg 120  
 caacaaatgc gttcattatt ccacaatgct cacttgctcc gagtgccatt attccacagt 180  
 tcttcctcc agttacttca atgggcttcg aacaccagc tgtgcaagcc tataggctac 240  
 aacaagcgtc tgcggcgagc gtcttagaac aaccaattgc ccaattacaa caacaatcct 300  
 tggcacatct aaccatacaa accatcgcaa cgcagcagca acaagcactg agccacctag 360  
 ccgtggtgaa ccctatcgcc tacttgcaac aacagctgct tgcacccaac ccacttgctt 420  
 tggcaaacg 429



<210> 11582  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-H3

<400> 11582

gctcttcagc cctataggct ccaacatgca atcgcagcat gcaacatacc tttatcacc 60  
 ttgttggttc aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg 120  
 gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct ggcaaacctt 180  
 tctccctact ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaaccct 240  
 gctgcttatt tgcagcaaca actattacca ttcagccagc tagctactgc ctactctcag 300  
 caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc ttatttgag 360  
 cagcaaatac tactaccatt tagccagcta gctgcagcaa accgtgcttc cttcttgaca 420  
 cagca 425

<210> 11583  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H6

<400> 11583

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcggc gcggccgtgg agaagaccat 60  
 cctgaagcgc ctcccgccca cggatctggc gtctctggtc agccctctcc ctctccctcc 120  
 ccgcgccagt gccggtgcct cgcccgggccc gctcgtgctc tacgacgact acgaggcgcg 180  
 gctgcgggag ctgcagcggc agcgcgactg gtacttgatg agcaccgcgg gtgcgggtcc 240  
 gggctctggac cccgcctact tgcacttgtc ggtggcggcg gggcatccgg ataacgagga 300  
 cccacagcag tgggtccccga ggcgacgacc gtccccgtgc cccgagtgcg aggcggcgcg 360  
 ggcggccatg cggcagccgg cgttccactg gtgcgtgcgc gnacgcgtgg tctccgcggg 420  
 a 421

<210> 11584  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-H8

<400> 11584

ctttggagtc agagagcacg gaatgggagc catttgcaac ggcattgctc tgcacagccc 60  
 aggggtttgtt ccgtactgtg ctacattctt tgtcttcact gattacatga gaggtgccat 120  
 gaggatctcg gccctgtctg aagccggagt catctatgtc atgaccacg actctattgg 180  
 tctcggagaa gatggccga cccatcagcc catcgagcac ctggtgagct tccgtgcgat 240  
 gccgaacata ctgatgctcc gccctgctga tggcaacgag actgccggag catacaaagt 300  
 cgcggtcgtc aacaggaaga ggccgtccat cctcgctctc tccaggcaaa agctccctca 360  
 cctgcctggc acctcgatcg agggcggtga gaagggcggg tacaccatct ncgacaactc 420  
 gact 424

<210> 11585  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A1

<400> 11585

agagaagatc cttcacgagc aagagcagct tcgggagatt gaactcagca agcaacagga 60  
 tgccagcgac ttgcaagaga aaaatagact ttcacgggtg ttggaacaca agaatgcttt 120  
 acaggagaga atcatccaag aacgtgcagc tgaatttggc cgtctgaaga aagagagaga 180  
 tgaacggatg aatcggttga tatcttcaag aaagcattaa agggagacag taaggaagtt 240  
 gatggtttat ctgaacctgg aggaacagcg gattgaaatg cttcgtgagg gaa 293

<210> 11586  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A10

<400> 11586

atgtcttctt tctactttct tgtaacctaa gacgaactcg gtgaactctt tctcctggcg 60

cagcaccgga gcacaatcaa ggattccagt ccagtcctgc caatggagtg cgttttgggc 120

ttggttggcc gcgacttcgc ggtgggtggcg gtcgacacct tcgccgtgca gagtatcctc 180

gtacacaaga ctgacgagga caaagtaatg gtcctcgact cgcacaagct gttggggcgct 240

tcaggggagc ctggtgaccg ggtgcagttt acggagttca tacagaagaa cctccacctg 300

taccagttcc gcaacaccat cccgctgtca accgccgctg ccgacaactt cacacgcggc 360

gagctcgcca cagcccttcg taagaatcca taca 394

<210> 11587

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A11

<400> 11587

ctgcctcttc tcctctcttc taggctctag tcctctcgca tccgcagctt ccccaggggg 60

ctaggggttg cagatgacga cagcggcgcg cccacactgg gcgcgggcca agggcggcaa 120

cgagcagggg ggcacccgca tcttcggccc ctcccagaag ttctctctcc gcgacctcgc 180

cgcgcacacc tcctcaagc caagaaaaga cggtaacag acccaagagg agttacagaa 240

gaggaatctc agggaggaac ttgaggaacg tgagcgcaag cactactctt ccaaggataa 300

gtcctatgcc gaagaaagag accggcggaa aagctctagc catctactct tagaaggttc 360

aaagagagaa gcagaggata agatagttcc acgaggaatc gatgctgatg ac 412

<210> 11588

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A12

<400> 11588

caactagcaa catagaaagc acaatagtgt accaacaatg gcagccaaaa tattttgcgc 60

tccttatgct ccttgggtctt tctgcaagtg ctgctacggc gaccattttc ccgcaatgct 120

cgcaagctcc tatagcttcc cttcttcccc cgtacctctc accagcgggtg tcttcggtat 180  
 gtgaaaaccc aattcttcaa ccctacagga tccaacaggc aatcacagct ggcatcttac 240  
 ctttatcacc cttgttcttc caacaatcat cagccctatt acatcagtta cctttggtgc 300  
 atttattggc acaaaacatc agggcacaac aactacaaca acttgtgcta gcaaacccttg 360  
 ctgcctactc tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg 420  
 cttcttattt gcaaca 436

<210> 11589  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A2

<400> 11589  
 cggactcgtg gtcggacgcg tgggaaataa aaataagaaa aaaaaataaa aaacaaaaag 60  
 ggtagataaa aaaaaccagt atatcacaaa aaacacaaaa tttaaagacc taaaagagat 120  
 atgatgatga aagaacacct tacaagcggc cacaaatgaa aaaaccttca tcgaataact 180  
 ctggaatgga atccaaacat gatgatcttg atgctgactt ttcacaaccc acgtctgggc 240  
 aaagtagttc aaggcagcac gcttctaagc cggaagcctc acctttggac tttgtcattc 300  
 gtccacagtc caaaattgac cctgagcaga tacgggctcg tgctaagcaa gctgtccaag 360  
 accagcgtcc gctgaagatg aacaagaaat tgcaacaact gaaagcgccc aagaagaaaa 420  
 acc 423

<210> 11590  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A3

<400> 11590  
 aatatttcgc acgacaaaaa aaaaaaataa attaaaaaaa aaaaaaaaaa aaaaaaaaaaag 60  
 aaaggaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaca taaaaaaga aaatgaatgg 180

taaaactaaa aaacaaaatt tacatatata aattttaata atatacctaaa atttaaaaca 240  
 tggacaaaaa attaaaaaat catgaacgtg taaaattaac tagaatatt 289

<210> 11591  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-A4

<400> 11591

agaagatctc agcgacaaaa caatgaagat cactttatgg gcagattagg cgataatggg 60  
 caagcttcat gacgtgtacg atgcaaatac aaataaaccg attcttgtgc tattcgctcg 120  
 gtgcttacca aaatttttca aagggtgtcta cctaagtggg ggtcctgcct gtagatggta 180  
 cttcaatcca acaattccag aggcagaacc ttatcttacc agccagtcta caaaaagaat 240  
 tgtgttacag cttcccaaaa atttacaaca tcctccagcg atggaaacga agccaattgt 300  
 cgaacataaa tccctctatg aacttcttac agttaacca tatgatttcc cggaacagg 360  
 atttgaatgt actatcacia tagcagaaat accagctgaa cacaaatggg ggtttccatc 420  
 ttgcacaaaa tgcaataaa 439

<210> 11592  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G9

<400> 11592

acgctgcagg ggacctgccg cgtatgcagc acccttttcc tgggccagtg cgtcaagttt 60  
 gtgaggcatc agtgcagccc gacggcgacg ccctactgct cgcctcagtg ccagtcgttg 120  
 cggcagcatt gttgccagca gctcacgcaa gtggagccgc atcacggtta ccaggcgatc 180  
 ttgggcttga tctacagtc catcctgcag cagcagccgc aaagcgggtca tgtcacggtg 240  
 ctgttgacag cgcagatagc gcagcaactg acggcgatgt ggggcctgca tcagccgact 300  
 ccatgcccat acgctgctgc cggcgggtgtc tccactgaa gaaactatgt gctgtactat 360  
 agccgctggc tagctagcta gtcgagtcac ttagcggcga tgattgagta at 412

<210> 11593  
<211> 412  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-F3

<400> 11593

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tgcaacaatc ctatcctatc tggcaaaagt tgggtttgca ctagctgtaa aaatttccat 120  
ctatgtgaca agtgtcatgc agaggagcag aatacagcac agaaggacag gcattcggcc 180  
accacaaaac agaagcatgc attcgaaaga atggaggtac aacctcttcc agagactgat 240  
gatggagatc cgacaaatga aaagtagtat tttgacagca ngatcgattt cttgaagcac 300  
tgccaagaca tcaattttcca gtttgatacc attccggcgg ccaaagcact ctacaatgat 360  
gattctgtat tacctacaca attcaacctg ctctgcttgc catcgtgccg tg 412

<210> 11594  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-F4

<400> 11594

aagaaaagaa gaaggaggaa gattggttct gatttaaate ttggtagaac tgaccataca 60  
acatgtctat gaatcaatca atttgttttg caggcgtaca tggtcggcga gcacggcgac 120  
agctcgggtg cggtgtggtc gagcgtgagc gtggcgggga tgccggtgct caagtcgctg 180  
caggagagcc accgctgctt cgacgaggag gcgctggagg gcatccgccg cgccgtcgtc 240  
gacagcgctt acgaggtcat cagcctcaag ggctacacct cctggggccat cggctactcc 300  
gtcgccagcc tcgccgcgtc gctgctccgg gaccagcgcc gcatccaacc ggtctccgtn 360  
ctcgccaggg ggttccacgg catccccgac gggaacgacg tc 402

<210> 11595  
<211> 417

<212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-F5

<400> 11595

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 aattccttcc agaagaaact ctcgctgctt tttggattgc gttctgaggg tgcacctagg 120  
 agctctggta atgggtgggc aactcagagg gcatctgcat tagcagctct atcatccgca 180  
 ttcaatccat catctcaaca aaggctgtct aatgagaggg ctaaaagcac aggcgatgga 240  
 cccacgcaac gtgcctcagc actggctgcc ttatctaata cattcaaccc atccttaana 300  
 cccaaaacat caccttcate tcgctcaggt cgaggttctc aaagagcagc tgctgtagct 360  
 gctctatcct ctgtgctgac tgctgagcaa tctggatctt cagaatttct acgatcc 417

<210> 11596  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F7

<400> 11596

caccgggtgt cgggtgaactc ggcgagggag aggttctcca tgccctactt cttcaaccgg 60  
 gcgacctaca ccatggtgga gccggtggag gagctggtga gcaaggacga tccgcccagg 120  
 tacgacgcct acaactgggg cgacttcttc agcaccagga agaacagcaa cttcaagaag 180  
 ctcaacgtgg agaacattca gatcgcgcat ttcaagaaga gctcgtcctt cgctaacta 240  
 ctgctactgc taggatccat gccattgcca tgctgtcttc agattcagag cagcccatgt 300  
 cgtcgctagc ttcgtggtag aacaaataat gatgtgcgtg ctgtgtgtaa gcatggatat 360  
 ggatg 365

<210> 11597  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F8

<400> 11597

accaggtgat ctcaagtaat taacagaaaa tatattccat cattgaaaat gagttccggt 60

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atcaaggagg caagagagat cattcttaaa gacatgcca acgctaacat tcaagttcta 180

ccggttggct cgcttgtgac ccaagacttt cgccctgac gtgttcgcat cttcgttgat 240

attgttgctt agactccaac agttggctga caaggatatg ccttatctat aggccaaata 300

aacaaagcct acttttatgt atcatggcta ataaatccta catttcttgg ttaaaaaaaaa 360

agaaaaaaat ataaaataaa aaaagaaaaa aaaaatataa aaaaaataaa aata 414

<210> 11598

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F9

<400> 11598

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tttctacatg tggtgctaac ggcacaattt tcctcaatg ctcacaagct cctatagctt 120

cccttcttcc ccatacctt ccatcaatta tagcttcaat atgtgaaaac ccagctcttc 180

aaccatatag gcttcaacaa gcaatcgag caagcaacat acctttatcg cccttggtgt 240

ttcaacaatc gccagcccta tctttgggtg agtcattggt acaaaccatc agggcacaac 300

agctgcagca actcgtgcta cctctgatca accaagtagc tctggcaaac ctttctccct 360

actctcagca acaacaattt cttccattca accaactgct tacactgaac cct 413

<210> 11599

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G1

<400> 11599

agcacgcctt ccgggcccgc aggtcttttg gcccgacct gaaaaggatg gcgttggtcg 60

gtctagcgct cacacgttaa gaccctgaaa agagacctac gatgcttcaa gtcgtgccgt 120



tgctgaaagg ccagtctaaa gaaacgctcg ttaagcttga caggcaggag ttgttgttca 180  
 gccagactc gacgacggtg agttcgcagg gaacaccgac cctagatggg agcacggact 240  
 ctgcgccgtc ctagatagat caagaactga ttggggcgtg agttgcgata tatagctgct 300  
 ctaggcgatt gtctagggcg tatccgtggg attgatgatt ggtctgcgcg gattgacgtg 360  
 aatgcgaatt gtatagggcat tgactggcca tctacgtatg gtttctgtcg catttgaggg 420  
 agta 424

<210> 11600  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-G10

<400> 11600  
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 agaagatgaa gagcagcact ctgttggcga tcttagttct ccaggccctt ctggtctctg 120  
 cggccgtggc caaaggacct gcagggccga cgacgaagaa gcagtgctgg tgcggcgagt 180  
 gcaccagctg gtcgggctg tggacctgcg acgacctcct caccaagtgc gccgccacct 240  
 gcaagaactg cgtccccgtg tccacggaca agggggccat caagtacagg tgccgcgact 300  
 tcttccccga aaactgcggc tgcaagatcc actagagact catccaattc caccatggcc 360  
 gngcgccaca gcggcacagc cgatggatcc ttccatgttc ctccgt 406

<210> 11601  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-G12

<400> 11601  
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 agcagcggca gcggaggccc ggcgatctcg tctgctgcgt gcggcgaggg agtaaccgga 120  
 gccgcgacag gatgcactcc tttgggcacc gcgccaacgc ggtggcaacg ttcgcggtca 180

ccatactggc cgcgatttgc ttcgccgcct cttctccga caacttcaac accccgacac 240  
ccactgcctc cgtaagatc ttgaatctaa actggttcca gaaggaggcc aacggcaacg 300  
acgaggttag catgacgctg aacatttcgg ccgacctttc gtctcttttc acgtggaaca 360  
canaacaggt gtttggtttt gtggcagcag agtatgagac tccacaga 408

<210> 11602  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G2

<400> 11602

cagcatagaa agcacattag tggtagctcc attggccggc taaaatattt ggctcctga 60  
tgctccttgg tctttctgca agtgctgcta cggcgaccat tttcccacaa tgctcacaag 120  
ctcctatagc ttcccttctt ccccgtagc tctcaccaac ggtgtcttcg gtatgtgaaa 180  
accaattct tcaaccctac aggatccaac aggcaatcgc agctggcatc ttacctttat 240  
cacccttggt cctccaacaa tcatcagccc tattacagca gttacctttg gtgcatttat 300  
tggcacaaaa catcaaggca caacaactac aacaacttgt gctagcaaac cttgctgcct 360  
actctcagca acagcaagtt cttccattca accaactagc tgcattgaac tctgcttctt 420  
at ttgcaac 429

<210> 11603  
<211> 173  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G3

<400> 11603

accactcgt ccgccgactc ttctacccg acaaattctt tgtacctcac ctgaaaaata 60  
ttgccttggg gagtctatcg tacacacatt tataacctca aaacacaccc actatacttt 120  
aaatccaccc gtttcttaaa cgccagtcta aacaaactct cgtaaatctt gaa 173

<210> 11604  
<211> 420  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G4

<400> 11604

cccacgcgtc cggaggaagg cggaatttgc aggcctcttt gcaaagttaa ccagaagtg 60  
gcccctgata ggacctctgc tcttctttct gggcatgaag aactccatcc cgaagcggca 120  
gggcggcagg aagaaggccc ccaaggcgaa gacgaactan ggctgcttag atagctgcac 180  
gcctcagggt gngtgtatca ggagacaggt ctatttcgaa gcaggctcag cgcatgcag 240  
cgaatgccat cgagctgcgc ttttacctgt ttatcatcag attccatttt gcggcccgaa 300  
caaagggtgt accggngtgg gttaggcgac tagattgcac gattatgtac ttgagatttg 360  
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<210> 11605

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-024-Q1-K1-G5

<400> 11605

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aggagaagaa ggatttaaac aatctaagaa aaggagacct ggtgtttctc ctggtgacag 120  
gtctggtggt cttgctaagc gaggtaaaga aggaaagaac aggagggcaa aggattccat 180  
gtttgggcac ggtggtcgta aagggtgaa gaagcaaaac accgctgaga ccactaatga 240  
tttcagaagc tttaaccagg ggggtcagtc tcaaaacaag aagagaaaga ggttttgaac 300  
ttttgatgga tatattaaga atttggtgta gtctcaaaac cagaagagga agaagtntg 360  
aacttttggt ttattactat tccccctgc ggcattattn tggtatggtg tgt 413

<210> 11606

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G6

<400> 11606

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gatattatcc ctctttgcmc ttcttgccct ttttgtgagc gcaacaaatg cgttcattat 120

tccccaatgc tcaactgctc ctagtgccat tattccacag ttcttccttc cagttacttc 180

aatgggcttc gaacacccag ctgtgcaagc ctacaggcta caacaagcgc ttgcggcgag 240

cgtcttataa caaccaattg occaattaca acaacaatcc ttggcacatc taaccataca 300

aaccatcgca acgcaacagc aacaacaatt tctaccagca ctaagccaac tagctgtggg 360

gaaccctgtc gcctacttgc aacagcagtt gcttgca 397

<210> 11607

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-G8

<400> 11607

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ctactttctga aagactcccc atcaaaagag agactgcagc aaagcataat gatatttccg 120

ctgtacgtcg accctctaca ggagagagac gtgcttttac tagagatggg gttctgagaa 180

ctgatgtgaa gacacctagt aaggcaagag caactgtggc tcatccgatg agtgaaatga 240

ctacagtggg caatacgaga aaggctatca ctccaaatgc agctagaagt agcaagctgg 300

aaacaaaaag caataactac agactgaagg gaccttcagc attggatagc cactctacta 360

ggtcaaacag aatggacttg caagtgtctg gcaagcagaa atcgagttct gttaacct 418

<210> 11608

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F2

<400> 11608

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aaaggaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaqaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa ataaaaaaagg cctactttttt 180  
 taaaattttc aattttttatt aaagttacat aacaaaaaatt aacttttcttt tttttaaaac 240  
 taaattaaat ttaaaaaaac ctgtttttaa aaattttta tggaaaaaac ttatgttaac 300  
 caaaataaat tgcttttaaaa aaaaaaacct tttttccaat tgggtttata accaaaaggc 360  
 cccttttaaat gcccatttta aaaaattttt aaaccttaat ttaaaaag 408

<210> 11609  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D4

<400> 11609

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 gctgcttcgt cggcggectc gectgggcca cggacgacca ctccctccac aacgccttca 180  
 gcacctacgg cgaggtectc gagtccaaga tcatcctcga tcgggagacg cagaggtccc 240  
 gcgggttcgg cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 300  
 tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccggggcg 360  
 gccgtggagg cggcgggcgt ggggtacggt gtggccgtgg aggcggcggc tacggcggtg 420  
 gc 422

<210> 11610  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D8

<400> 11610

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 aagttcgta gcgacggcgt gttctacgcc gagctcaatg agatgctgac gcgggagctc 180  
 gcggaggacg gctactccgg cgtggaggtg cgcgtcacac cgatgcgcac ggagatcatc 240

atccgcgccg cgcgcacgca gaacgtgctc ggcgagaagg gccgcaggat cagggagctc 300  
acgtctgtcg tccagaagag gttcaacttc cccgagaacg gcgtcgagct ctacgccgag 360  
aaggtcgtca accgcggcct ctgcgccatc gcgcaggctg agtccctccg ctacaagctc 420  
ctcgg 425

<210> 11611  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E11

<400> 11611

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cagaagaggc atgatatgca agtgagggat aaggctttgt tacttctgga ttcattggcaa 120  
gaggcatttg gtggacctgg tggcaaatat ccacagtact actggtcata cattgaacta 180  
aagagggcag gagtaatgtt cccacaacgt cctgtagatg ctccctccaat atttactcct 240  
actgcaacac atcaggcata tggttcacct agatatcctt ctggaagtct aaatgagaga 300  
atcacatctg atgctggaac gttgagcttt gagggcttga ataattattag aaatgcaacg 360  
gaactgctgt atgatatggg gaatgc 386

<210> 11612  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E12

<400> 11612

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aacaactcgt gctagcaaac cttgctgcct acgctcagca acagcagtta cctttgggtg 180  
aattgttggc acaaaacatc agggcacaac aactacaaca actcgtgcta gcaaacttg 240  
ctgcctactc tcagcaacag cagtttctgc cattcaacca actagctgca ttgaactctg 300  
ctgcttattt gcaacaacaa caactactac cattcagcca gctagctgct gcctaccacc 360

agcaatttct tccattcaac caactggcag cattgaactc tcttgctt

408

<210> 11613  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E2

<400> 11613

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ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac 120  
cgtcaacgag gccagtccc gcggcgccg tggaggcggc ggcggtgggt acggtgggtg 180  
ccgtggaggc ggcggttacg gcggtgccg gcgccgtgat ggcggtggcg gctacggcgg 240  
tggcgggcgc tacggtggcg gcggcggtta cggtggtggt ggcgggcggt acggcggtg 300  
caaccgtggc ggcggttacg gcaactccga cgggaactgg aggaactgag cgggtggggc 360  
cgcggggcca agttatcctg ttcgctaccg tgatgtttac cctagtc 407

<210> 11614  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E6

<400> 11614

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aaaaagccca ataacgctcc aaacgctaag actaactatg actgtacaca tacttacata 180  
catgacgctg ctactatcat tacacatgcc tatatatcag cacgctcaac gctatacacc 240  
aaatctaata cagctacgct tgtacatggt tatcatcata tagcatttta cgaacctaac 300  
aaacatt 307

<210> 11615  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E7

<400> 11615

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ccgggggaga ttatgtgatg gtgataagct atggggcggcc caagtccgcg tcctgttaaa 180  
accatatcac catcgacggc ctggcgaggt cgattcctag ttcgaacaag ggttggtgcc 240  
gccgccgctg ccgcgcgcgg ggaagaggcc gtcgacagat aaactcaagc agcggtagcg 300  
ggctgctctg ccgcagcagc tcgtcctctc accggcgtgt tctttaaaga tctgttcgtt 360  
cgttcgttgt tgtcatacat gcacatgtga tggaagtcgc tataatttgg tagtacttg 419

<210> 11616

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E9

<400> 11616

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gcgagctgg tggcgggcgg cagccggacg ccgtcgccca agacgaaggc gtcgcagctg 120  
gtggggcgct tcctggcgc ctccgagccg gccgtgtccg tgcagctcgg cgaccacggc 180  
cacctcgcct actcccacac caaccaggcg ctccctccgc ccaggtcgtt cgcgccaag 240  
gacgaggtgt tctgcctgtt cgaggggggtg ctggacaacc tgggtcgtct gagccagcag 300  
cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcacgaggg ctacaagacg 360  
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<210> 11617

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F10

<400> 11617

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aatatTTTTgc ttccttatgc tcttgggtct ttctgcaagt gttgctaccg caaccatttt 120  
cccacaatgc tcacaagctc ctatagcttc cttcttcccc ccatacctct caccagcggt 180  
gtcttcaatg tgtgaaaacc caattgttca accctacagg atccaacagg caatcgcaac 240  
aggcatctta ccattatcac ccttgttcct ccaacaaccg tcagccctat tacagcagtt 300  
acctttgggc catttgggtg cacataacat cagggcacaa caactacaac aacttggtgct 360  
agcaaaccctt gctgcatact ct 382

<210> 11618

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F11

<400> 11618

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tatggcgggtg atctgggttca tcgcagaaac agaagtacag aagccagtgg ctttgtcgtc 120  
cacctgtgaa gagctgaata cgttttgtct cagtgcgcga gtagagtagc ttaacactac 180  
atactgtaaa catcatcatt tatcagcacg ggatcctatt ctccaaaagg aaaaagacaa 240  
tatttttttt tgatcaacta tgctccctc atagctagag atagtaagca gggctctgcct 300  
gccggatggg ctgttgatga ggctagaaga tcgttggggc tcggaacggc aagcagacaa 360  
ccctcaggtt cctaggctgc gggacctcct ccaaccatgc cagccgaca 409

<210> 11619

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F12

<400> 11619

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tcggaattcc gaaggttggg catggaggcg agcggcgaga aggctgcggt ggtgcgacgg 120  
ctgatggagg cgaaggaggt gtccgggaag accttctcgg gaatcgccgc cgagacgggt 180  
ctcaccaacg tctacgtggc gcagctgctg cggcgccagg cgcagctcaa ggccgacacg 240

gtgcccgcgc tgagggcggc cctgcccacg ctcacggacg acctcatcga actcatgatg 300  
cagccgccect tccggctcta ccaccccaac atcgtccacg agcccgccat ttacagattg 360  
aatgaagctg ttatgcattt tggagagagc atcaaggaaa tcatc 405

<210> 11620  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B4

<400> 11620

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cagttttgat atcagttact tcttatgcgc tgggtttata tttcattgct aagtctccat 180  
ggtatcttct tcccttggct tgggcttggc caggcacagc agtgactggg ttttttgtga 240  
taggtcatga ttgtgctcac aaatcatttt caaggaataa gttggttgaa gatgttggtg 300  
gaaccttggc tttcatgcca ttgatatac cttatgaacc gtggagattt aagcatgacc 360  
gacatcatgc caagacaaac atgttgatag aagatactgc atggcaacct gtttggca 418

<210> 11621  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B5

<400> 11621

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agcccatccg gatggcctcc atcctcgagc cctccaagcc cagctacttc ccggcgatga 180  
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tcaaggccgg catgtccgtc gcccggttcg atttctcgtg gggggacgcc gcgtaccacc 300  
aggagacgct ggagaacctc aagctctcca tcaagtccac caagaagctc tgcgctgtca 360  
tgctcgacac cgtgggcccc gagctgcagg tgggtgaaca gagcgagacc ccgatct 417

<210> 11622  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B6

<400> 11622

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 taatctataa cttccctgag gaactctttg ctgacgctgg cataacttgca attgagcatg 180  
 ctgactttga gggcattgaa cggctggctc ttgttactgg tggtagagatc gcatcaactt 240  
 ttgataatcc agagtctgtt aagcttggtc actgcaaggt cattgaagag attatgattg 300  
 gggaggacag gctaatacat ttctctgggg ttgcgatggg gcaggcttgc accattgtcc 360  
 taaggggggc tagtgagcat gtgctcgatg aagctgagag gtccttgcat gatg 414

<210> 11623  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B7

<400> 11623

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 agtttccag tcaacatgtc aaggacaagt gggccaagaa tctctacctt gctgggatat 240  
 gctatgggcg aaaccgtgcc taacatcgtc cgttgctgac cctaggctgt gttgatgtat 300  
 attttgaagt ttttatcaac tgctaccaac atgaaccaca aggcaattgg cctgtcgtaa 360  
 cccatgaaaa ttgaaagggg atgaattccg atgtatgtgc ccgaacttga ttctagggt 419

<210> 11624  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-B8

<400> 11624

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gataaggcca cgaagccctc ggacatcctc gcctgcaaca cgagctccat ctccgtaacc 180  
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tctnccgtaa tgaaactgat cgaggttatc cgaagagccg atacgtcaga tgaagtgttt 300  
gcttgtggca gaactttcta cgaaaggcctt gggaaggccc gtatattgct cgaaggatta 360  
cccaggattc atcgggaacc gcacccctcat gccgatgatc aacgaggcct tctgggctct 420  
gt 422

<210> 11625  
<211> 218  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B9

<400> 11625

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tgtagaaatt acgatttaga cttgtttcta aatgaataat tgtatatata attagaagat 180  
catgatcggg tgagaaaaaa attggtggta ttggaact 218

<210> 11626  
<211> 389  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-C10

<400> 11626

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agctggagcg ggaagtggcg gcgctgcggc tggagctggg cgcggcgcgg cgccgcgccg 180  
 agacggcaga agaagccgag gagcggctgt gcgctgcagct cggcgacgcc gaggtggaag 240  
 cgctcgagct cgcgcgccgc taccaggccc acgtccacga gctcgccagg gagctcgncg 300  
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 agtagctata gcgtcgggtt cagcgggat 389

<210> 11627  
 <211> 200  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C11

<400> 11627

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 aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 120  
 aaaatgttat gggatttaaa ggtaacttaa cttgaattgc cgtgggttaa caataatgtg 180  
 gctgaaaaaa acttgagtaa 200

<210> 11628  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C12

<400> 11628

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 ttaaaacttg gagatatacc gtacatatga agagctagct agtagtgagt gataaagtgg 180  
 gaaagtgaag catatatagt cgtaaaaaca atcacatgaa ttgctattag gcaccatata 240  
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 aattgcagtg cgaagcacca tatatatata tgcagtggca gcatgcagaa accaaaaaag 360  
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<210> 11629  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-C3  
  
 <400> 11629  
  
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 gcaacaaatt tgatgttgac acccgtctgg ttgaggggtct ggtcctggac cacgggtctc 180  
 gtcaccctga catgaagcgc agggcagaga attgtacatc ttgacctgca atgtctcatt 240  
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<210> 11630  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-C4  
  
 <400> 11630  
  
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 ggaaacatga ggaggataag gtgattgtgt tcgaaaaggg agatttggtg tttgtgttca 180  
 acttccactg caacaacagc tatttttgact accgtattgg ttgtcgaaag cctgggggtgt 240  
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 cagccgagca cttcacgcnc gactgttcgc atgataatag gccatattca ttctcggttt 360  
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<210> 11631  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-C5  
  
 <400> 11631

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cgtgcttatg agacggagcg tcttgatgct gcaactgaaac tagctactga gtattgcctg 180  
aggtgcaaac atgagcttat caggagacac tatgcactga 220

<210> 11632  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C6

<400> 11632

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accatacaag agatagcaac gcatcaatta caacaatcta gaccagcact gagccaacta 120  
gctgtgaaga accatggcgt ctactggcaa caggagctga tcgcatgcaa ccaactagct 180  
ctggctaaca tagtggcata ccagcaacac caacagtcgc aacagcattc taccagcgct 240  
cagccaacta gccatgggtga accctgacgt ctacctacga cagctacaac tgagttaatg 300  
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<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C7

<400> 11633

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ggctgccagc gccagcgccg ggaccttctg cgtgccgggg tgggccattc cgcacaaccc 180  
gcttccgagc tgccgctggg acgtgaccag ccggacctgc ggcacgggc cgcgccttcc 240  
gtggccggag ctgaagagga gatgctgccg ggagct 276

<210> 11634  
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<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-C8

<400> 11634

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aaaaataaaa aaaaaaaaaa aaaaaataaa aataaaaaaa aaaaaaaata aatataaaaa 120

ctaaaaaata aaaaaaaaaa aaacaaaaaac aatactgcat gcctttatgg gccataaagt 180

acaaccgct accgatctaa ctttggtact ttaccaggcg gacctgaagt atatttcctt 240

gcctcccggt t 251

<210> 11635

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<212> DNA

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<400> 11635

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ttcgaaggaa gtcctactc ctgcgcctgc gaagaaggaa gcccctactc ctgcggctga 180

cccgcctcggg agcgccaggg ggaaggtgca ggaggagggtg atgaaggagt tcgcggccat 240

catggccagc ggtacgctac gggccagcga ggcggcggcg ctggccatgc gccgggtcat 300

ggagcgccac agcgacggcg ccacgatgca gcagggctag acgaatcagg ctgtgaacgc 360

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<210> 11636

<211> 168

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11636

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aaatcaaacg tgatagtccc aaaatatattc aggtctatca ctttcaagct attcaacttc 120



aatccacact tcaataactca atcacctttc acattcccat aacttttc 168

<210> 11637  
<211> 245  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D11

<400> 11637

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atcctgatgc aacgccatgt acttggtgat ggcaagggtca ggactgacaa gacctaccct 180  
gctgggttca tggatgtcat ttccattcct aagacaatgg agaactacag gctgctttat 240  
gacac 245

<210> 11638  
<211> 117  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D12

<400> 11638

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<210> 11639  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B3

<400> 11639

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ggacattggc ggcaatacga ccagagttga caacggcaaa gagtactatg cctacacaac 180  
tgagaagaag cctgcaaatt gattccaagt ctgcacttct agcaaacaat cttgcacgcc 240

atcaactcag tgaatttgaa gctgatgtgc agttttatgt ctggtttgct gatgcaatta 300  
gttcttaagc aaatccatgg caacttgttt atcgctgatg cttgagggat ggaaatgaca 360  
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<210> 11640

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H8

<400> 11640

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gccgcctgcc gcctgccgcc ctgcgccagg tgccaagcag ccagggtgtt ttggggccct 120  
tcgccggcga cgagcaccac cagctgaaag atggcgagga taccgtctct gaagagcctc 180  
aatgcgtttc cacatgcgga agagcacttg ttgaagaaga cttactctgg cgctgttggtg 240  
acaatttttg ggctacttat aatgattaca ctgtttgtgc atgagctgca gttttatctt 300  
accacctaca cgggtgcatca gatgtctgta gatctgaaac gaggagaaac tctgccaatc 360  
catatcaata tgtcatttcc ttctttgcc tgtgaagtat tgagtgtgga tgcaattgac 420  
atgtctg 427

<210> 11641

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-H9

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gagcatgtca gcaagacgtc catcctggat gacttcgcct tctatgagag tcgccagaag 120  
ctgatgcagg ataagaggtc gaaacagcag cagggtccaaa agcagggtctg ggacagtagg 180  
acccccattt ctgtcactgg aagcgagcaa cagcaggaag ctgccaatgg gaagcccaat 240  
ccgtctgtac caaacggtgt ccctgcagag gtgaaggcgg cgaagggttc tgcagagaac 300

ggcaccgnca ctccagctat ttcctacgcy gcaaaggtgg cccaagcagc aacagagaaa 360  
cctgtgctcg ccaacggagt cgctaagacc ggtagctgg acc 403

<210> 11642  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A1

<400> 11642

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agaacacaag ggagacagct tttgcgcttc gcaagctgcc tttgaccaag gctaagcgat 180  
accttgagga tggtattgct cacaagcagg caattccctt ccggagatac tgtggagggtg 240  
ttggtcgcac cgcacaagca aagtctcgcc actccaatgg gcagggtcgc tggcctgtta 300  
agtcagccag gttcatattg gatttgctga agaattgctga gagtaacgct gatgtgaaag 360  
gcttggacgt ggacaacctc tatgtttcac acatccaggt gaaccaagcc cagaagc 417

<210> 11643  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A2

<400> 11643

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ctcacaagct cctatagctt cccttcttcc ccctacctc tcaccagcgg tgtcttcaat 180  
gtgtgaaaac ccaattgttc aacctacag gatccaacag gcaatcgcaa caggcatctt 240  
accattatca cccttggttc tccaacaacc gtcagcccta ttacagcagt tacctttggt 300  
ccatttggtg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
tgctgcatac tctcagcaac atcagtttct tccattcaac caactggctg cattgaactc 420  
tgctgctt 428

<210> 11644  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-A3  
  
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 gccaaaatat tttgcttccg tatggtcctt gatctttctg caagtgtctgc taccgcaacc 120  
 attttaccac aatgctcaca agctcctata gtttcctttc tttccccata cctatcacca 180  
 tcggtgtctt cagtttgtgc aaaccttatt cttaaacctt acagcatcca acaggctttt 240  
 tgtagcacgc atattacctt t 261

<210> 11645  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-A4  
  
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 cttatgctcc ttggtctttc tgcaagtgtc gctaccgcaa ccattttccc acaatgctca 120  
 caagctccta tagcttctt tcttccccca tacctctcac cagcgggtgtc ttcagtatgt 180  
 gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg catcttacct 240  
 ttatcacctt tggtctctca acaaccgtca gccctattac agcagttacc tttggtgcat 300  
 ttgttggtcac aaaacatcaa ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct 360  
 gcctactctc agcaacagca gtttcttcca ttcaaccaac tggctgcatt gaactctgct 420  
 gctt 424

<210> 11646  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-024-Q1-K1-A5

<400> 11646

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gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtg cttcggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240

tttatcacc cttgttctcc aacaatcatc agccctatta catcagttac ctttgggtgca 300

tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcttactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420

ttctt 425

<210> 11647

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A6

<400> 11647

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ccttatgctc cttgggtcttt ctgcaagtgc tgctacggcg accattttcc cgcaatgctc 120

gcaagctcct atagcttccc ttcttcccac gtacctctca ccagcggagt cttaggtatg 180

tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240

tttatcacc cttgttcttc aacaatcatg agccctatta catcagttac cttcggtgca 300

tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360

tgcttactct cagcaacagc agtttcttgc attcaaccaa ctaactggat tgaac 415

<210> 11648

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-A7

<400> 11648

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acagatgatg acgcctaaca tgatgtcacc attgatgatg ccgagcatga tgtcaccaat 120  
 ggtcttgccg agcatgatgt cgcaaatgat gatgccacaa tgctactgcg acgccgtctc 180  
 gcagattatg ctgcaacagc agttaccatt catgttcaac ccaatggcca tgacgattcc 240  
 acccatgttc ttacagcaac cctttgttgg tgctgcattc tagatggaat aattgggggtg 300  
 gtcccaatta tggagtgacc ttgcattggg tgggaactaa ttataattac cattaaacca 360  
 ggtttctttt aaaaaaaaaa aaaagggccg gccg 394

<210> 11649  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11649

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 ttgctccagt aagtgataac aaaggcattg gaacaccggt ccgacaattc aggagaaaac 180  
 agggaaagcc tgagtaacct tggatataga gcagtggatt tttgaatctg ccgtctgatt 240  
 atgaccgtcc tgacgatgtg ctctgacacg agggaaacttt ttgcctgaag caataagggg 300  
 taaaaaatta cgggatagat tgcttagagc aaanatcata ggtagaggat gatgttatat 360  
 gcggcgcatt gacctccgtg aggtcaagag ccccatagaa gcttctatct ttggatttgc 420  
 t 421

<210> 11650  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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tgaggctttg gacttgatca atgagccgaa gaggccttca gacaagcccc tgcgtctccc 180  
 cctacaggat gtgtacaaga ttggtggtat tggaactggt cctggtgggc gtgttgagac 240  
 tggatatcatc aagcctggta tggttgttac ctttggctct agtggcctta ctactgangt 300  
 gaagtctggt tgaaatgcac catgaggctc tccaggaggc ccttcttggg gacaatg 357

<210> 11651  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B11  
  
 <400> 11651

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 ctcgagtcca agatcctcct cgategggag acgcagaggt cccgcggctt cggcttcgtc 240  
 accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300  
 gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc 360  
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<210> 11652  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B2  
  
 <400> 11652

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 catcctcgca gccgcgtcc tgetctccgt gctcgggct gccagcgcca gcgccgggac 180  
 ctctgcgtg cgggggtggg ccatcccgca caaccgctc ccgagctgcc gctggtacgt 240  
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ctgccgggag ctggcggaca tcccggcgta ctgccggtgc acggcgctga gcatcctcat 360  
ggacggcgcg atcccggcgg gcccggaacg gca 393

<210> 11653  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H7

<400> 11653

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gcagcccaac tccgctatcc gtaagtgtgc tcgtgttcag cttgttaaga atggcaagaa 240  
gattgctgcc ttcgtgccaa atgacggttg tttgaactac attgaggaaa atgatgaggt 300  
cttgattgct ggatttggtc gtaaggggca cgctgtggga gatattcctg gtgtccggtt 360  
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<210> 11654  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G3

<400> 11654

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tgctcacaag ctctatagc ttcccttctt ccccatacc ttccatcaat gatagcttca 180  
gtatgtgaaa acccagctct tcagccctat aggtccaac aagcaatcgc agcaagcaac 240  
atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
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<210> 11655



<211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-G4

<400> 11655

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caactcaagg gcttgatgag cgtgtgctct tgcttgtcag agacgacctc attgtgacaa 300
tggcagattc gtttgcgccc aaccgcaccg ncttggtgct cgctgcaga aagctcgtga 360
tggctcgccg cacgtacgca tcggcctggt tgactgtcat cttcttc 407
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<210> 11656  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G5

<400> 11656

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ccgcggcagg cgacgctgca gcagggtgaag cggtcgctgg tcatcgcgct gtccccggtg 180
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atgggcgcct ccaccgtcag cagcatcctc tccacctacc tctgctggcc ggccttcttc 360
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<210> 11657  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G6

<400> 11657

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ataagagaca tgaaatgtcc caagtttctt ttgatccatg gtgaacctac ttaatatctg 180

agagatatac tgggggaaaa tggaggctgc ggcaatcctt gtgcagttgg gccgtggaat 240

acagcatatg caagtgtttg attgtgcagc attctttatt acttggtcgc aatatagatg 300

ggctgagccg aacagcaagg tatttttgatt ctgcactgct cccgtgtaca aacttggttc 360

tcaataaggc aggcaggaat gcatctgcca gtgg 394

<210> 11658

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G7

<400> 11658

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gacaaaccaa ctgagatgga gtttctactgg tgcttttgag gcaagacagt cgctgatagt 180

tagaggcctc tttccgatgc ttgcagatcc tcggcatcca gccgaatcaa ccagtaatac 240

aaatgagtca gttctgaagg ttgctctaga ccatggcaag gcatgtggtg tgatcaagtc 300

ccatgaccgt gttgtcgttt gccagaaggt gggagattca tcggttgtga agatcattga 360

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<210> 11659

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G8

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ctcaaagtgc ggtggcaatc ttgacagcag cacaatacct accatcaatg tgcggcttgt 180  
 accactcata ctacccaaat aatccatgca gcagcaatga cattagtggg gtttgcaatt 240  
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<210> 11660  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-G9

<400> 11660

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 ttacttcaat ggccttcgaa caccagctg tgcaagccta taggctacaa caagcgattg 180  
 cggcgagcgt cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 240  
 caatacaaac catcgcaacg caacagcaac aacagttcct accagcactg agccacctag 300  
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 tagcanacgt agttgcaaac cagcaacaac aacaactgca acagtttct 409

<210> 11661  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H10

<400> 11661

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 ttgaagtgag acttcagaat ggccttgaat ggggaggtgc ctacattaag tacatccgcc 180  
 ctcaggatgc tggatgggat gccaaaggagt ttgataatga gactccatac actattatgt 240  
 ttggtccaga taagtgtgga tcaaccaaca aggttcattt catccttaag cacaagaatc 300

ctaagactgg aaagtatgtt gagcatcatc tcaaattccc accatctgtc ccatatgaca 360  
agctctctca tgtctacacg gctatcttga agccagacaa tgaggtcaaa attttgg 418

<210> 11662  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H11

<400> 11662

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggggcagtca 300  
ttggtacaaa ccatcagggc acagcaactg cagcaactcg tgctacctgt gatcaaccaa 360  
gtagctctgg caaaccttcc tccctactct cagcaacaac aatttcttcc a 411

<210> 11663  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H2

<400> 11663

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atgcgctgtg ttcttggttc ttggagccat atcttacaca tccgtatatt gcatcgggtg 120  
aatcggcagc gaggacaccc ctgctcccaa gccaaaacct gggatgccgt gcttccacgc 180  
cggaacctca cagtaccctt gcactactga cgggtgccgc aagttatgcg agcaccaaca 240  
ccacaggagc gacatggcct actgtaaaag tatttcttca ggagaatgct gctgccccaa 300  
cgaaatgagg atgtggtcgt gtgtttgatg acgacaatta ttaaataaaa catgcatgat 360  
tg 362

<210> 11664

<211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-H4  
  
 <400> 11664

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 ctccaacagg caatcgcagc aggcaccgta cgttaataac cctgggtttca acaatcgcca 120  
 gccctatctt tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc 180  
 gtgctacctg tgatcaacca agtagctctg gcaaaccttt ctccctactc tcagcaacaa 240  
 caattttctt cattcaacca actgtctaca ttgaaccgtg ctgcttattt gcagcaacaa 300  
 ctattaccat tcagccagct agctactgcc tactctcagc aacaacaact tcttccattt 360  
 aaccaattgg ccgcactgaa ccccgctgct tatttgcagc agcaaatact actaccattt 420  
 agccagctag ctgcagcaag ccgtgcttnc ttcttgacac 460

<210> 11665  
 <211> 186  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-H5  
  
 <400> 11665

taatataaca ccacctaaat acaattcact ctctccttat tataacaaga ctcacactac 60  
 taaaaccttg tcattacca acttaatacc attccatcac atctacttt atacagcatt 120  
 cttataataa caaacacca aacctaactc ctttttcaac atttcccaa ccacaatctc 180  
 aaatat 186

<210> 11666  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-H6  
  
 <400> 11666

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ttttgcttcc ttatgtctct tgggtctttct gcaagtgttg ctaccgcaac cattttccca 120  
 caatgtctcac aagctctctat agcttccctt cttcccccat acctctcacc agcgggtgtct 180  
 tcaatgtgtg aaaacccaat tgttcaaccc tacaagatcc aacaggcaat cgcaacaggc 240  
 atcttaccat tatcaccctt gttccttcaa caaccgtcag ccctattaca gcagttacct 300  
 ttggtccatt tgggtggcaca aaacattaag gcaca 335

<210> 11667  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-G11

<400> 11667  
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 gaggcacacg tgcagcccca cggcgacgcc ctactgtctg cctcagtgcc agtcgttgcg 120  
 gcagcagtgt tgccagcagc tcaggcaggt ggagccgcag caccgggtacc aggcgatctt 180  
 cggcttggtc ctccagtcca tcctgcagca gcagccgcag agcggccagg tcgcggggct 240  
 gttggcggcg cagatagcgc agcaactgac ggcgatgtgc ggcttgcagc agccgactcc 300  
 atgcccctac gctgctgccg gcgggtgtccc ccaactgaaga aactatgtgc ttagtatatag 360  
 ccgctggcta gctagctagt tgagtcattt agcggcgatg attgagtaat aatgt 415

<210> 11668  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E9

<400> 11668  
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 tcattattcc acagtgtcga cttgtctcta gtgccattat tccacagttc ctcccaccag 180  
 ttacttcaat gggcttcgaa catccagccg tgcaagccta caggctacaa ctagecgttg 240

cggcgagcgc cttacaacaa ccaattgccc aattgcaaca acaatccttg gcacatctaa 300  
ccctacaaac cattgcaacg caacaacaac aacaacagtt tctgccatca ctgagccacc 360  
tagccgtggg gaaccctgtc acctacttgc aacagcagct gcttgca 407

<210> 11669

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F1

<400> 11669

ggagaaggag ctgaagcacc aagagctgta caagaacgag cagtaccgca tgaagctgca 60  
caaatcgaac gagcggctgc tggcgctcgt caagtcgagc ctggacatcg tggaggccgt 120  
ggggctcctg cagctggccc cgaagaaggt gacccccgc gtcacgggag cgtttggctt 180  
cgccagctcc ctcatcgctt gctaccagct gcttccaagc ccaccagcaa agcagagcaa 240  
gtgaagactc cgactccaag cacttggttac caggaaaata atcccccggt ataggtttga 300  
tttggttgcc acatccccctt gtatggcaga ctagactaat atatgtaatc atcatcataa 360  
taatttgata accatgccac tatggatagg tttgggtcaa 399

<210> 11670

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F10

<400> 11670

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aagggagggt ctgccactgc gcaagtcaga gcatgcattc tacctggact gggctgtcca 120  
ctctttcaga atcaccaact ggggagtcca ggacaccacc cagatccaca cccatatgtg 180  
ctactccaac ttcaacgaca tcatccactc catcatcgac atggacgcag atgtgatcac 240  
catcgagaac tcccgggtccg acgagaagct actgtccgtg ttccgcgagg gtgtgaagta 300  
cggagctgga atcgggtccag gtgtctacga catccactcg cccaggatcc cctccaccga 360  
ggagatcgcg gaccgcgtca acaagatgct cgccgtgc 398

<210> 11671  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-F12

<400> 11671

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cgggacgcgg cgagggttttag gcgggggtttg ttttgtccct tccgtgcgat tctgctctcc 120  
gcgcggggagg caagtactga cggaagcgaa ggccaaggcg gaggaggggg tccccggcgg 180  
tggaagtgga acgcgccgat gcgcaagttt caggactcca tcaaggccct ccaggccgac 240  
atcgatcacg ccaatgcgat ggcgtcggaa ttcttgaggg actacgacgg ctcggtcatc 300  
cagatgcggg tggcgtacag cgccgtcgcg catttinctt tgcagtggac cgactgcaag 360  
ctcgccggcg cgctcggcct cctcaagggt atgctataca aggtgtg 407

<210> 11672  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F2

<400> 11672

aaaaaaaaa aaaaaacaaa aaaaattata ataaaaaaaaa aaaaaaaaaa aaaaaaagtg 60  
aggtttaaaa aaaaacaaaa aataaaaaaa aaaaaaataa aaaataaaaa taataaaaaa 120  
aaaaaaaaa aaataaaaaa aggcaaaaat tttttaaaat tcaaaaattt agggcgccctt 180  
ctttttaagg aaaaaacttt tttttagggt accttaaat aattaacttt tcattttttt 240  
aaaaaaattt taattttaaa aacccttttt taaaaacaat tttatttgg 289

<210> 11673  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F3

<400> 11673



atattattgt tcttagtcat cgcacaagac tcttgtcaac aagaccaaca acaggatgag 60  
 gactaccgtg catgctgcgc tttgcattgt gcttgtgata atgtcttcaa cactgtcatc 120  
 ttgcgaggac gatgagaagg tatctatcgc atgtgacaca ggatgcaatg ccgcgatctc 180  
 ccgcctcaaa tgcttcctga tggcctattc tgaagggaaa gtgttgggtca gcagcaactg 240  
 cgaaacgccg accaggtgcg gctgcgtggt tgcgcacaaa caagatgcag cccttatcgc 300  
 cggcgacgtt ggcaacaaaa agggatactg atggcaaacg tgtacttttt ggttgaataa 360  
 tactgctaga attaatatgg gcaccaacga a 391

<210> 11674  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-023-Q1-K1-F4  
 <400> 11674

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 atgtcacaaa gctcctatag ctcccttct tccccatac ctctcaccag cgggtgtcttc 180  
 aatgtgtgaa aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat 240  
 cttaccatta tcacccttgt tccttcaaca accgtcagcc ctattacagc agttaccttt 300  
 ggtccatttg gtggcacaaa acatcaaggc acaacaacta caacaacttg tgctagcaaa 360  
 ccttgctgca tactctcagc aacatcagtt tctttcattc aaccaactgg ctgcattgaa 420  
 ctctgctg 428

<210> 11675  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-023-Q1-K1-F5  
 <400> 11675

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 cacctccacc tggccagaac cagatgccat cccaccatag tcagggaac atgtctccgc 120

aaccaccaca tgctgggtgt ggccaaccaa actatcagcc ccaaagtcaa aaccacaga 180  
 cgggctacaa ccctggcggt gtcctcact accagcaagg tgctgctcct ggctaccaag 240  
 gtggacctcc ggggtatcaa ggtggttacc aagggaaccc aggcctgcc taccaaggtg 300  
 gtaacactgg ttatcaaggt ggcaaccac caccttcta ccaaggaagc aaccaccac 360  
 cttcttacca gggaagcagc ccaccaaggc caccaccttc ct 402

<210> 11676

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F6

<400> 11676

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 tgctggccta atccatttgg ttgtgaacat gctaagtttg ctgtttattg gaatccgcct 120  
 tgagcagcaa tttggatttg ttcgcattgg tgccatatac ctactgtctg gttttggtgg 180  
 cagcgtgttg tctgcactct tcctacggaa cagctacatc tccgttggtg cttctggagc 240  
 tctatttggc ctgctgggat ccatgcttct tgaactactc atgaactgga ctatatactc 300  
 caacaaggca gcagctataa taacactggt gtttattatt gcaactcaatt tggctattgg 360  
 gatactacct caggttgaca actttgctca cattgggtga ttcgcgacgg gtttcctctt 420  
 ggggt 424

<210> 11677

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-F7

<400> 11677

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 actgatatgt gcaacttctc agtaataaaa gattagagat ctatatttta agttcaaaaa 180  
 aaaaaaaaaa aataaaaaaa aatcaaagta aaaaaaaaaa acaataaaaa aaataacaaa 240

aaaaaactaa aaaaaataaa aaaaaattac tttaggaaaa aaaaaaaagg ggtgcccttt 300  
 taagaggacc aagttttata acccgggctt tgcaacgtaa agattttttt tagggccccc 360  
 taaattcaaa tcacggg 377

<210> 11678  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-F8  
 <400> 11678

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 ctctccatcg agaagctcca ggagatacag gacgagctcg agaaggtaaa tgaggaagca 180  
 agtgacaagg ttatggaggt ggagcagaaa tacagtgaga tccgcagacc tgtctatctc 240  
 aagaggggtg acattatcaa gaccatcccc gacttttggc tcacagcggt tatgagccat 300  
 cctctattaa gtgagcttct gactgaagag gaccagaaga tattcaagta cttagactcc 360  
 attgatgtgg atgattctga tgtaaggga agatactcca ttcattctaa cttctct 417

<210> 11679  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-F9  
 <400> 11679

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 tcgacaatga cggccctcga cagcctaggg ctcgacatcg agcaagcggg catcagctgc 180  
 ttcaatggct ttgcgatgga cgtgttccga gctgagcagt gcgcggatgg tcctggaatg 240  
 gtgcctgaag aaattaaggc cgtgctgatg cacaccgncg gccttcacaa cgcaatgtag 300  
 ccggtccgaa nacggggccac cgncaggatg acgacgatcc tncnctttc tactaagggc 360

ttcgggttcgg aagcggcata agattaagct gtggtggtca ttgggttttct gggga 415

<210> 11680

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G10

<400> 11680

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tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180

ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240

cggcgagcgt cttacaacaa ccaatttccc agttgcaaca acaattcctt ggcacatcta 300

acattacaaa ccacgcaac gcaacagcaa caacaattcc taccagcact gagccaccta 360

gccatggtga accctgccgc ctacttgcaa cagcagttgc ttgcatcaaa ccca 414

<210> 11681

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-E8

<400> 11681

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ccatctctgt gtacaacagg acaacctcca aggtggacga gaccgtgcag cgtgccaaagg 120

cagaaggaaa cttcccgtc tacggcttcc atgacccgc gtcctttgtg aagtcattc 180

agaagccacg ggtggtgatc atgctcgtca aggccggcgc gccagttgac cagaccatcg 240

cgacgctcgc agctcacttg gagcagggcg actgcatcat cgatgggggg aacgagtgg 300

acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttggca 360

tgggtgtctc tggaggaaag gagggtgccc gcaacggccc gtccttgatg 410

<210> 11682

<211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-D12  
  
 <400> 11682  
  
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 cgcgctctgg agaagctcat cgcagcgtcc tacgctcccg ggactggctc cgccctcatg 180  
 ccggtggcag tcgccgggct gcctgcgcgg ctacaacacc ggcgctccgc tccgacgcta 240  
 cgaagggggc gagtcggaag acgatagcgt ccgcgagtac gatgggcggc acggcggccg 300  
 ggactacgct gtgcccagcc tgtttctaga tattttccgt gatccgctta gtgcgcgcgc 359

<210> 11683  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-D3  
  
 <400> 11683  
  
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 gggactccat gacctttcac attcccatac gagtgccagt tgtactatag tgcaagctaa 180  
 atgcaatgaa cttgccgaat gttatcaagc aaccgactga gaaaacactg cagttgccta 240  
 ctttattgcc tacgaaggat a 261

<210> 11684  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-D5  
  
 <400> 11684  
  
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gctacactcc agatcatgtc tagtacatth cttctttcttc gatgaagggtg cttgtttgtct 180  
atcaagggga gtgggaagta gcagcacatc caccttcatt ctcataataa tgctgcccag 240  
acgcagccat gatttaatta gaaacttctt gacaaaggat gtttgttttt aactagtcgt 300  
gcgcactgat taattcagtt catgttggtta tgggtgtctt cccattgcta gcagattatt 360  
aatgtctt 368

<210> 11685  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D6

<400> 11685

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gatggagact gtgagaatga cctccaaagc ctgataagtg actgcaagac atacgtgatg 180  
ttcccagcta atccaaaggt cctccttcg gatgcttgct gtggtgtcat caagaaggca 240  
aacgtttctt gcttgtgtct caaggtcacc aaagaaactg agaaggttgt gtgcatggag 300  
aaggttgtgt atgttgctga gcagtgtgag aggccatttg agcatggctt ccagtgcgga 360  
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<210> 11686  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D7

<400> 11686

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ggcatcctgg ctccctaact catttcactg gccgtctgtt tacaacttgg ggcccgtaaa 180  
tccccttccc tgccccaact taatcacctt cctgcccgtc caacttttgc ctgctcccat 240  
tttaaccac tggccccaac tgctcgctct tccaacgggt ttctcagcct taatgcccat 300

tgggaccccc cttgcaaccg gtcattcagc ctgactgctg attgggtcac gccctgtgtg 360  
gccgcttcac ttgc 374

<210> 11687  
<211> 425  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-D8  
  
<400> 11687

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catggctgga cagccaagaa gagaagccag agccaagtga actgaaggct atagcctctg 120  
aaggggtaat cacttgctg caagatgcca tagaatccct cgagcaaggc aatgatata 180  
agggagtgtc agagcagtgg agcttcgtcc cccatgttgt caacgagctg ttaaaactag 240  
atggaggcgg aaaaggtgcg gctctgcccc aagagcagct acgtcaacta gcaggcaagt 300  
gcaagaagat ctaccaggcc gagtttgctc gcgcggacat ggcgcacaag aacaagggtg 360  
ggcatcaaaa tgaccacat gtgaccgagc accgcaggaa gaccaatacc anatcagagg 420  
atgac 425

<210> 11688  
<211> 418  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-D9  
  
<400> 11688

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ctcagggacc tgcagtgtg gcaggaggtc caggagagcc cgctcgacgc gtgccgccag 180  
gtcctcgacc ggcagctaac cggcggcggc gtcggcgggc cgttccggtg gggcaccggg 240  
ctccggatgc ggtgctgcca gcagcttcag gacgtgagcc gcgagtgccg ctgcgccgnc 300  
atccggagca tggtcagggg ctacgaggag gccatgccgn ctctggagaa aggcttgtgg 360

ccatatnnggc cggcagcagc agccgccgcc gcagggagga ggaggaggac aggggggc 418

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<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-E12

<400> 11689

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ggagtgggca caagactttc aggatcctga gattcatcac agacatgtgt ctactttgtt 120

tgggtctttat cctggacata ctatgtcact tgaggaaaca cctgacctct gcagagctgt 180

tgccaatagt ctttataaaa gaggtgacga aggccaggc tgggtctactt catggaaaat 240

ggtcctatgg gctcgcttc acaacagtga ccatgcatac aaaatgatac tgcagctaat 300

cactttggtg gatccagaac atgaggtttc aagagaagga ggcctataca gcaatctgtt 360

cactgcacat ncacctttcc aaatngatgc aaattttggg tt 402

<210> 11690

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E2

<400> 11690

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gcaattctga ttgaagcaac aatggttctc caacttgcta tctgtgccga ccctaattgct 120

acagcaacta ttcacctcac cgatttatcc cagccatatg ctacttatta tcccacgatt 180

tatgccacat ctgacaataa ttccaattcc aaaaattaag ccatctataa taatacccac 240

<210> 11691

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E3

<400> 11691



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aagatatttt ccatecttat gtccttgct ctttctgcat gtgttgctaa cgcgaccatt 120  
tttctcaat actcacaagc tcctatagct gcccttcttc cccatacct tccatcaatg 180  
accgcttcag tatgtgaaaa ccagccctt caaccctaca ggctccaaca agcaatcgca 240  
acaagcaact tacctttatt acccctgttc tttcaacaat cgccagccct atctttggtg 300  
cagtcattgg taaaacat cagggcacia cagctgcagc aactcgtgct accagtgatc 360  
agccaagtag ctctggcaaa ctttctccc tactctcagc aac 403

<210> 11692  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ctgatgcttg cagcatccat tctaaggctt tccaagattg tctcaacaac tatggcagcg 180  
agatcagcaa ttgccagttc tacctagaca tgctgaacga gtgccgccgt ggtgggtgtgt 240  
ctgcctaaac tgcctctggg attattcatg gattntcttt tcgtgatggt atctcattaa 300  
ataagatacc gtgaaacttt tgtctccaca gcttgaagct gaacttcttg ggattaatac 360  
atcttggtat cctatgctgt tggagcagac ttttgtctct ggatcatana tattt 415

<210> 11693  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-023-Q1-K1-E5  
<400> 11693

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gacttccaag tggttaagttt attccagga ataacaacag ttatgacaaa tgtcgtcgaa 120

gatttgacct gggatgatgca gactatctta ggtatcatgg tatgcaagag ttgatcagg 180  
 caatgcaaca tcttgagcaa aaatatgaat tcatgacatc tgatcaccag tatatttccc 240  
 ggaaacatga ggaggataag gtgattgtgt tcgaaaaggg agatttggtta ttgtgtttca 300  
 acttccactg caacaacagc tattttgact accgtattgg ttgtcgaaag cctgggggtgt 360  
 ataaggtggc cttggactcc gacgctggac tatttggtgg atttagcaag atccatcacg 420  
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<210> 11694

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E6

<400> 11694

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 taccagctct aactcagcta gctgtggcaa accctgttgc ctacttgcaa cagctgcttc 180  
 cattcaacca actaactatg tcgaactctg ttgcgtacct acaacagcga caacagttac 240  
 ttaatccatt ggcagtggct aaccatttgg tcgctgcctt cctacagcag caacaattgc 300  
 tgccatacaa ccggttctct ttgatgaatc ctgtcttgtc gaggcagcaa cccatcgttg 360  
 gaagtgccat ctttttagatt acatatgaga tgtactcgat aatgggtgcc tcataccggc 420  
 atgtg 425

<210> 11695

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B5

<400> 11695

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 acatgtatat acaaatacaa atgttaaaat ctgataatac atattaatag ttaaattgccg 120  
 aactttaaca cctcacagtg taactactag tccacctaac ctactattca aatagaaatg 180

cggtgtctttt attcatatta ttatgccagt tgacacaaat catatatctt taaccggtct 240  
attgaattta actactttta atataagata gaactgtatt atattactt 289

<210> 11696  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B6

<400> 11696

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ccgtcaggct caaccgaagg ttttccggtt ggtccaacaa cccggccccg acttggtacg 180  
gcgagccac cggcgctgga agcgacggtg gtgcatgcgg gtaccagaac gccgtcgacc 240  
agccgccgtt ctggtccatg atcgccggcg gcagtcctc catcttcag aacggcaagg 300  
gctgcggcgc ctgctatcag gtgaaatgca cggggcacgc gtcgtgctcc ggcagcccgg 360  
tgaccgtggt cctaaccgac gagtgccccg gcggcgctg cctggacgag cc 412

<210> 11697  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B7

<400> 11697

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cctggcatcc ccgacgacgt ggccgtggac tgcttggcgc ggcgtcccca cgcctccac 180  
cgcgcgatgc gccgggtctg ccgcggctgg cggagcgcc cgcggcgcc ggccttcgcg 240  
tcggcgcgcg ccgcggcggg cgccaacgag gacctcgtgt acctgatgca gttcggaac 300  
ccgtccggcg acgacgggac caaggacggc gacgacgggc ccggcagcac cccggcgtag 360  
ggcgtggcgg tgtacaacgt gac 383

<210> 11698

<211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-B9  
  
 <400> 11698  
  
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 gggaaggcca tccgaccagc tgggcaggag aaacctcact gacagccccg tatttgacgg 180  
 ccgtggccct gacgccagcc tcgtggctcg cgtacaggga gtcgctaccc agatggggca 240  
 cgtgcgccag ttgtacaccg tcgtgttcca ggagaggccg ctcaagggtc ccacgctcgt 300  
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<210> 11699  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgcttcaagg cggcctacac ccgcaacgac ctcgacgcct gggtcaccct cctctcacia 180  
 ctttaaggctc atcttaccaa attccccaac ctttcggcct catttgagcc gacacctaaa 240  
 gccctggagg agcttaaact tgcaaggagc atttattagc cttcctgggtg ttttgagtgt 300  
 gaaacttgag ga 312

<210> 11700  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-C11  
  
 <400> 11700

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 aaataaagat aggctgtgta tagatattct agagagggag atgatgcgga atcctatggc 180  
 ggtggaagat gccgtcacct cgcctttgtt ggcagatgat cttcacatga agcttctcta 240  
 cctggaaaac agagttgcat ttgctagatt gttctttcct gctgaagcca aggtcgccat 300  
 gcaaactgca caagcagaca ccacagaaga attcggcggg atagttgcag ttgcagcaag 360  
 cacttccggg aaactgaggg aggtggacct taatgagacg ccagtgcacac aaaaca 416

<210> 11701

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-C12

<400> 11701

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 cactttccta gtgtgggttag gtaagatgct cccgnctgaa cttgtgaaca acattctttg 180  
 agtgagcttg gcaaactttc ctgacctatc aaagattgta ttgagagagt gtgacaatga 240  
 attgtcaaga aatttcatga aattactaag atccctgcgc gagaaggatc cttcctatca 300  
 ccagctatgc cgtgtggtgc gacagggatga acag 334

<210> 11702

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C2

<400> 11702

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 gagatgccgc agacgaagcc cgctccaaat caagaggtgg aggctaaggg tgcaaagcgg 180

ccgagcgcgc cgttccagcg cacctggctg attgacgacg acttccgcat cctggaggcc 240  
ctcgcctgcgc aacgcctgga gcacggcgcg ctgcctcaaa cggacgtgct ggccgacgcc 300  
ctcgcctggca agctcgacaa tagtggtgc agcctctccg atctcaagag gaaggtgaag 360  
agtttgc 367

<210> 11703  
<211> 157  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C3

<400> 11703

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gacctcacgc agatgacctt tggctacagc agggatgatg tggggaagtt catccccatt 120  
tatctggctc agggcattct tcagcatgac cccttcg 157

<210> 11704  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-023-Q1-K1-C4

<400> 11704

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cagcaaactg tgactggaat aagccagatt tcatttagcg ctgatggaag tgtttcacca 180  
aagaagccat cgtcgatacc tgaggtggct aagcagcgag agcttagtgg caccctggaa 240  
gatgctgatg ctaaaatcaa taagcagctt tctgaagcca agaccaagga gcttagtggg 300  
agtgacatct ttggtccgcc ttctgagatt ccagcgagge cattggctgc tcgtaacatg 360  
gagctacaag gaaatgtcga tttttcactt tcacagcgaa gcgtnacac a 411

<210> 11705  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C5

<400> 11705

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cgccgtcctg ctctccgtgc tcgcggctgc cagcgccagc gccgggacct cctgcgtgcc 180  
gggggtgggac atcccgacac acccgctccc gagctgccgc tggtagctga ccagccggac 240  
ctgcggcatc gggccgcgcc tcccgtggcc ggagctgaag aggagatgct gccgggagct 300  
ggcgggacatc ccggcgctact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360  
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<210> 11706

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-C6

<400> 11706

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agtcattggt acaaaccatc agggcacagc agctgcagca actcgtgcta cctgtgatca 120  
accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 180  
accaactgtc tacattgaac cgtgctgctt atttgcagca acaactatta ccattcagcc 240  
agctagctac tgcctactct cagcaacaac aacttcttcc atttaaccaa ttggccgcac 300  
tgaaccccgc tgcttatttg cagcagcaaa tactactacc atttagccag ctagctgcag 360  
caagccgtgc ttccttcttg acacagcaac agttgctgcc tntctaccag cagtt 415

<210> 11707

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C7

<400> 11707

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 ccaacaagaa caggttggtat ttggaaatca agtagcaciaa cctgcacatg tggcttcaag 180  
 acaacctca tatgacaccc gctggagctc gagagattat ggatcaaccc aagggcaact 240  
 gggatatggt ggtcctcaag cacagtcata tgaatctcag ttaccacatc accaggggaag 300  
 ttttggatatg ccacatgtcc aaaataacaa tggcttctat cgatacaacc ctggatatgtg 360  
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<210> 11708

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C9

<400> 11708

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 aaaagtttct taaagcctga taatttcaaa tggatcagtt ttgcagtttt tccccgtaga 180  
 tacacaggat atatagctga tacggcctca tcgtttctag tttgtacatg ctattaagtt 240  
 ggggcatgag ggatgcaata ctagctaggt gaggttactt atatgtgggt atggtgttct 300  
 atagatggat cgatgggtata catgttctga tttgttccc aacacccgac aagattttga 360  
 atgtatttgt acagatgttt ttgagttaca ttttgctttt tgtaactttg aagatg 416

<210> 11709

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11709

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 tactgcctac tctcagcaac aacaacttct tccatttaac caattggccg cactgaacce 180



cgctgcttat ttgcagcagc aaatactact accatttagc cagctagctg cagcaaaccg 240  
 tgcttccttc ttgacacagc aacagttgct gcctttctac cagcagtttg cggctaaccc 300  
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<210> 11710  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aatgttg 427

<210> 11711  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-022-Q1-K1-H1  
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 ttctttgcgt gcggttgatc tcgtcagatg cccggacatg gttactcaat ccgccatcga 180  
 attcgatggc agacaacgcc gggaataata tccgcaacgc caagctgaat cttcttggag 240

atgtgagcgc tggcaaatct agcttggatc ttcggtttgt taaaggacag tttgttgaat 300  
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<210> 11712  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-022-Q1-K1-H12  
  
<400> 11712

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tgtactcaaa aactggatct gctggtggag taaattacta tcgctgcttg gacctgaact 240  
gggaactgat ggcgccatgg acaggagcaa aggtgcaagt tccaaccaag ttcacgttg 300  
gggacggtga cctggcgtag catcacctg gagtgaagag gtacatccac aagggcgggt 360  
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<210> 11713  
<211> 323  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-022-Q1-K1-H3  
  
<400> 11713

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<210> 11714  
<211> 334  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H5

<400> 11714

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ccccaggagg ccagtggagg acacggcgcc gacatgagcc atcatcatca tctcagactc 180

agagcatgcc atggcacgca actgactgac tgactcggaa cacacacagc gacgcgcgcta 240

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tagctcactt gccgcaagtg caggggtcgc actg 334

<210> 11715

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H9

<400> 11715

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accaatatgt gagcccttct tatagctcct tgctcttatg tgtatgtact tgctaattcg 120

acagttgtct ctcatgtctc acagactacc aactgggtcca caacttctca tatacctacc 180

atcaatgatc tccattacaa tatgataacc catctgtaca cgcatatatg 230

<210> 11716

<211> 365

<212> DNA

<213> Zea mays

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<400> 11716

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ggatcttcca aagcttaatg aatatctagc tgttcacgga gaagattgtg cagctagatg 120

tcaagcagtg tcttctgtta agtatcctat ttatgatcaa actgtgtacc ttaacgatta 180

tcataagaag gtgttgaagg atcaatatgg aattgaaccc ttcacattcc accaacatat 240

tgggtgaggct gttttcattc cagctgggtg tcctttccaa ttgaaaaacc ttcagtccac 300  
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<210> 11717  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-A11  
  
 <400> 11717

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 atcttgtctg cttggaggaa gttggatgct atcgaggaga aggatggagt gcttgatgag 180  
 taagacgggt ttctgggtgc gatttgcttc tgagtttttt tctttntata tcgttgcgat 240  
 ctctggtttg tcgtttggtt agcaggcaag ccaggctatt agtccgaaga atgtcgtcta 300  
 taaacatgtg ttctacgtt gccacatgct gagtcaatct gtatacagct agctctaggt 360  
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<210> 11718  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-A12  
  
 <400> 11718

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 catcagcaaa gcggcagagc gtacagagga tcgtagaaca gaacagcatg aagacggta 120  
 tcgctctcct cacgtgccta gctctgtcag ctgccagctc ctctgcaatg cagatgccct 180  
 gccctgcac ggggctgcaa ggcttggacg gcgctggcgc tcggctgacc acgatgatgg 240  
 gcgcctgctg gctgtacccc tacgcg 266

<210> 11719  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-A3

<400> 11719

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acctcatcgc cactcgggtg cccgacggcg gcgagttccg cgtgcgtcgg cgattccgtg 180
acgtcgtggc gctcgcgcac cgcctctcgg agaccacccg cggcctcttt gtaccggcgc 240
ggcccagaaa gagcatcgtc gagggccagg tcatgcagcg gcacgacttc gtgaaccagc 300
ggtgcgtcac gctccagcgc tacctccgcc gntcgcgcgc gcaccccgtc gtcggccaca 360
accca 366
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<210> 11720  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A8

<400> 11720

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gttggtctgc aagggttctg taaaactact acttgtacaa aatatgctta ttatcatcag 120
aagaaaggat tcaaaccagc actggtttgt gctgatacat ttagggctgg tgcttttgat 180
cagttaaagc aaaatgcaac gaaggccaag attccctttt atggaagcta catggaatct 240
gatccagtga aaattgctgt tgaagggtgt gagaggttca agaaagaaaa ctgtgatctc 300
atcattgtgg acacaagtgg aaggcacaaa caagaagcag cactctttga agaaatgcgg 360
caagtttcgg aagcaacaaa accagacctg gtgatttttg tgatggacag tagtattggt 420
caggct 426
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<210> 11721  
 <211> 344  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-A9

<400> 11721

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gaccaaagaa gaagatgaag gtccgtgcgg cggatgaagcg cctgtgccgg ttctgcaagg 120

tgggtgaatcg ccgggggaatc gtcttcgtcc aatgcacgga caacgccaaag cacaagcagc 180

gccagagctt ctacaccatc gccgaaacag ccgtcgactc gtgcgttcac ctgccttcga 240

cgncggccgc tagcggtttc cgccttcgcc gcagcgttcg cagaggcttt caaagtggcg 300

agacatgaga tgtctatgaa gttcaattgg cggctggggt taac 344

<210> 11722

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B10

<400> 11722

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tctggaattg gtgtttgcat tgagttttgg aagatcggaa aggcgatgca tattgaagtc 120

gatagaagtg gaaaaattcc catgttgagg ttccgagatc gtgaatcata tgcacagaat 180

aagaccaaag agtccgatgc tattgcaatg aagtacctca cctatggcct ctttcctcct 240

gggatccgg ttcttctatc tattcactaa aggtttgaaa gcacaagaac ttggacttat 300

ggatactttc ttctaattgac aagttggggg aacatgtttg gttccatcat gatgtgcccc 360

caattaatta tcaactacaa gctgaagtct ggtgctc 397

<210> 11723

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B11

<400> 11723

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gccgaagttg tgggtgcttcc ctgcgcgacg ctttcgaacc gtttttatta tgcgcgcatt 120  
 ttctttccct gtgccaccac cctgatgaat gaagaaggcc tgagctaggg gaacatctgc 180  
 aggctgcagc agtatgcca atcattatca ttaccgttac cattaccaat tggagattgc 240  
 cgtaaatttc cgcgattatg ggaactcatt tacctgatta tctgatacgt ttgaaattaa 300  
 aggtccgccca ttagaatg 318

<210> 11724  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B3

<400> 11724  
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 tttagtacat gtaaatacaa acacgagtgt taaaagggtgc taaaagatgt taaaagtga 120  
 gtgccgaagt ttagcacctg tcagtgtttg gaccagtga cctaaccaac tagtgaaata 180  
 gtgtcgcgtg tcttgatcc agatgggtgat gcgagttgac acaaatgatt taccctggtt 240  
 cgggctatga agggccctac tttcagcaga ggaaggatgt ggattatatt actcgcacca 300  
 aaagtgtca cagtaggggt tacaagcacg acgggagagg gtaggacct aagtcctga 360  
 gagtgattga gtcaagtgcc aataccgtat gagagagaat 400

<210> 11725  
 <211> 307  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G9

<400> 11725  
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 tgcttatcag agttactcaa gaggcctcgt cattgccaaa gtcgatcatt tggcagcacc 180  
 tgaaccgta cttcaaaggg aacaccatga accagcacia ctgaatggaa ttgtacctgc 240  
 atcagcttta cctctacagc aactgctaca gcatgatgcg ccagtatcac gtgcatcagc 300

aagtgct

307

<210> 11726  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E9

<400> 11726

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tagattgctt attagttgta attcaataat aaagtttttt agaactctgga actgtaactt 120  
cttatatctg tttcaccaca tacatcatcc aaagattaca agatacatctt ccaaatttcta 180  
acaaattttac aaactggggcg ctctattatac agtatccaaa cttacctacg cttgcatgca 240  
actctataac ttttctatag cttaacttat atcaaatacg ctggccccga tagtacttcc 300  
tcatgactgc taaaacttta tcgataccca gcttcagcct cttac 345

<210> 11727  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F1

<400> 11727

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gctcatcctg ctcacctact ttgcggtcgt ctccggactc gtgtacgacg tcatcggtga 120  
gccccctggc atcggcagcg cccaggaccc cggcacttgc gccgttcggc tggtcgtctt 180  
gcttacaggg ctgcgtaacg gccagtgcac catcgaggga ctctctgctg ggttcattgtt 240  
cctgcttggc ggcattggca tcatcctgct cgacctcgcc gtcaaccgca cgaggccccg 300  
gagccttcgc gtctcgtttg gaagc 325

<210> 11728  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F10



<400> 11728

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gtagctcaaa tctaaaaaat tgtcatgaat tcctaaggca gcagtgcagc cctctggtaa 120

tgactattgt ccaatcacgt tcgatacaac caagtaactg ccacgtattg cagcaacaat 180

gctgtcatga tcttaggcac attgagccac aatacattca ccaagcaatc tacaacatgg 240

atcaatacat aatccacgag gagcaacagc aacaaccatg tgagttatgt ggatctcaac 300

aagctactca tagtgctgtg gcaatcttga cagcagcaca atacctacca tcaatgtgcg 360

gcttgtagca ctcatactac caaaattatc catgcagcag ctatgaca 408

<210> 11729

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F11

<400> 11729

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tttgagcatt cagaaacaca ccaagcgaag cacattagca acaacctaac aacaatggct 120

accaagatat tatccctcct tgcgcttctt gcgctttttg cgagcgcaac aaatgcgttc 180

attattccac aatgctcact tgctccaagt tgcattatta cacagttcct tccaccagtt 240

acttcaatgg gcttcgaaca ccagctgtg caagcctata ggctacaaca agcaattgct 300

gcgagcgtat tacaacaacc aatttcccag ttgcaacaac aatccttggc acatctaaca 360

atacaaacca tcgcaacgca tcagcaacaa caatttctac cagcac 406

<210> 11730

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F2

<400> 11730

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tccatcctta tgctccttgc tatatatgca tgtgttgcta acgcgaccat ttttctcaa 120

tactcacaag ctccatatagc tgcccttctt tccctataacc tatcattaat gaccgcttca 180  
 atatgtgaaa acccagccct tcaaccctac aggctccatc atgcatttgc aacaagcaac 240  
 ttacctttat caccctgtt attacaacaa tcgccagccc tatcgttggt gcagtcattg 300  
 gtacaaacca ttagggcaca acag 324

<210> 11731  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F3

<400> 11731

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 ccatagtagt tggttggtaca gaaacgatac ttttatttta gcagcacaag caactgaggt 120  
 attttatttg caagacatca agaattctgg aagctagtag attgatcaaa aatttacaca 180  
 taggcacttg tggtgtgtgg ctgaaaatga cattgatgaa agacctagtt tctcaagact 240  
 atcataccaa gatgatacat gtattggttc tgaagtgcaa gttaatgaag gagatatgga 300  
 gataactgga catcaggatg ctg 323

<210> 11732  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F4

<400> 11732

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 cgaggtcctc gtgcggctgg tgcattgagct ggtgggctcc ggcggcctgc aggtgctgta 120  
 cctgcagcac aacttctga cgggcatcgc gatatcgtct gaatcgtcag ttcctacaa 180  
 cgtgtcgctc tagcggaatg acaactgcag ggtgcacgcg gtgtacacgc agagcccgat 240  
 caaggcctgg tcgcagaaca cgcgtgcggc gtaccagtgc ccggagtgga ggggctgagc 300  
 ctgatgtcgg ggtgagcttg atcg 324

<210> 11733  
 <211> 64  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-F7  
  
 <400> 11733  
  
 aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaagggga 60  
  
 aaaa 64

<210> 11734  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-F9  
  
 <400> 11734  
  
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 gcgttggatc cggttttgta atcctgcatt aagtgcatta atttcaaagt ggattggttc 120  
 tgatgactgg gtgcttaata cagacaaact ggcagaactg aagaagtttg ctgataatga 180  
 agatctgcat tcagagtggc gtgctgctaa gaaggctaac aaaatgaagg ttgtttctct 240  
 tataagggag aagacaggat atattgtcag tccagatgca atgtttgatg tgcaggtgaa 300  
 aaggatacat gaatataagc ggcagctgct aaatatcctt ggaattgtct accgctacaa 360  
 gaagatgaaa gaaatgagca cagaagaaag agcaaagagc tttgttccaa gggatatgcat 420  
 attcgggtgg aaagcatttg ccacatatat 450

<210> 11735  
 <211> 138  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G10  
  
 <400> 11735  
  
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 caggacatcc ggtctagcag ttccatgctt acaaacgaag tcatgctact tcattctctt 120  
 tttatcgtca ctctaaa 138

<210> 11736  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G11  
  
 <400> 11736  
  
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 gtcgtcaaga cccctgggtg caagctcgtg taccagtaca ccaagaagag agccagcggg 180  
 cccaagtgtc ccgtgaccgg gaagaagatc cagggcattc cccatctgag gccagctgag 240  
 taaaaaagt ccaggttgtc taggaaccgc ataactgtga accgtcccta tgggggagta 300  
 ctatctggaa ctgcagttag agaaaggatc a 331

<210> 11737  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G12  
  
 <400> 11737  
  
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 gcaacaatgg cgaccaagat attttccctc cttatgctcc ttgctctttc tgcattgtgt 120  
 gctaacgcga caattttccc tcaatgctca caagctccta tagcttccct tottccccca 180  
 taccttccat caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc 240  
 caacaagcaa tcgcagcaag caacatacct ttatcaccct tgctgtttca acaatcgtca 300  
 gccctatctt tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc 360  
 gtgctacctg tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa 420  
 caa 423

<210> 11738  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G3

<400> 11738

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ccccgctggt cttccacgac ggccagctcg cgtttctgcc gacgccactc aacacggtgg 120  
ccatgttcac gtggcttcct ctgggcgcgcg cgctagagat agtgcggctg tccgtagcgc 180  
tagcgtctgc gtgcaaggtc tgcacggagc tgctggtggg cactggacag tcagggcgcc 240  
tccgaggctc actcccagcg cctgggaaca gcggcggtc cggacagctg tacgcgtgca 300  
accaccgtac gctgatcgac c 321

<210> 11739

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E6

<400> 11739

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ccggggagct gctctgcgcg gcggttgagc gccggtcact gtggtgttag cgctgtgaag 180  
cttattgcta tcataggcgg agttcggatg cctactcagc gtgatcctgt ccttcgtcgg 240  
ctactctggc ggctccaagt ccaaccgca gtaccgcaac ctagccgacc acgccgagt 300  
cgtcaagggt gagtatgatc ccc 323

<210> 11740

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G8

<400> 11740

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ggaatatgtg gacgatcatg aaggtggcga cgccgcaggt ggccgtcctc ctgctgggtcc 120  
tcatcgtcgt tgctcaggag gcggcgccgt tggcggaggc gcgcgtgtgc cgtcgccgga 180

gcgcgggctt taaggggggtc tagatgttcg accacaactg cgctcatgtg tgcttgcagg 240  
 agggctacgg cggcagcaac tgcgactgca tgatgcgcca gtgcaagtgc atcagggagt 300  
 gctagctagc taggctctag gatc 324

<210> 11741  
 <211> 139  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C7

<400> 11741

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 caccattcct ttgccgttag aagcacctca tctcccaccc ccagacaaca taagcgatga 120  
 gcggcaggaa cgaggcgca 139

<210> 11742  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C8

<400> 11742

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 gaaggtttga ttctatgtga caaagatagg atgataggac gtcattgtat ttgcttagat 180  
 tcattggtgg taatatgtac ccgactaggt agagacatgt aggagattgt cgttagcaaa 240  
 agctataagt tggctgaaaa ggtttcatct ataatggaag agacacaacc tcttcttaca 300  
 cggattgagg atttagctga agaaa 325

<210> 11743  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C9

<400> 11743

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ctatgcagcc tgaagaccog tgcaaatttt gatgatgcta gttccaagtc ccttcctaaa 120  
tttcttggca ctatacaggg aacttgacct tcaaacatct tttgaaggtc tgaagatgga 180  
aatataatct tctgctgaac tgacagaaac tttgtgaatt gcagagcaac ccgaattgaa 240  
tggtttagct tgtcattctt gatcctgtca cagcaagtgg tgacatcatt gaggcttgcc 300  
catggaatta tgacaactgt atctgccatg agctgtgtaa ttgcagttct tacattttac 360  
ctgtcttttg tcaatggtaa catctagtga ctattgtatg actaacatgg aatttcggta 420  
cctgcaattg ttatgtacga ttct 444

<210> 11744  
<211> 397  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-022-Q1-K1-D10  
<400> 11744

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cctctgcctt ttcttctgca agcttgtggc gtatacgttc ctgtactggc ttcccttcta 120  
tatcagccac acagctatcg gtggagaata cttgtcggac tccgcagccg gggtagctgc 180  
gacgctgttc gacgtggggc ggcgtcgtgg cggcaccttc gccggccaca tctccgacca 240  
cctggacgcc cgggcgctga cggccgcgag cttcaccttc tcggcgatac cggcgctctt 300  
cttctaccgc gtctacggga acgtctcgct ggcctggaac atcgccctca tgttcgtcac 360  
ggggatgctg gtgaacggcc cctacgcgct gatcacg 397

<210> 11745  
<211> 392  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-022-Q1-K1-D11  
<400> 11745

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aaaagggttaa accttatgac catgccccaa tatctactgc aaatgccaat aattcttaag 180  
catcaacaac cttaaactgcc actocagaca ctcaggcttc cacactatca tatgcacccat 240  
ccacattcac cttgcttgat caagctgcat tagcatcagc aaggctcatca gtagattggt 300  
ggagtgaact tgaagatggt aaaatccatg atgagaatag tagctaataa aattgatggc 360  
atgatgtata cccatttgat gacaagccat cc 392

<210> 11746  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D2

<400> 11746

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ccgctcgacg ccgccgtctt gcgctcatct agtgtctaca ctcccggcga cgatggcgga 120  
ggacttggtt ttggacacgg cgatccgaga ctgggtgctg atccaggtct acgtgggttat 180  
ggtctctatc ggcgtactcc agtactgaag tctgcaagct catgcgctgg gaggcgacct 240  
ctccgtgtac cgacccaag ctcgtttagg aagggcaggt ggtcatcagg gcgaggaacc 300  
tgaggaccaa cgcacagttc a 321

<210> 11747  
<211> 142  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D3

<400> 11747

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ggagagacct tcgcatcaa ga 142

<210> 11748  
<211> 325  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-022-Q1-K1-D4

<400> 11748

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aattgccc aa ttgcaacatc aagcagtggc acatctaaca atacaaacca tcgcatcgca 120  
acagcaacaa cagtgcctac cagcactgat ccaa atgtgc aatggtgccc ttgttgacta 180  
attgcagcgt gtgctgattg gatacaactg acttgctaga gcaa acgtag tttcaaacca 240  
gcaacaacaa caactgcaac agtttcggac agcgcttagt caactagcca tggatgaacc 300  
tgccgtctac ctacaacagc aacaa 325

<210> 11749

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D8

<400> 11749

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gtctagcagc agccaccggc gcctcatcct cgcagcggcc gtcctgctct ccgtgctcgc 120  
ggctgccagc gccagcggcg ggacctgctg catgcgggga tggaccatcc cgcacaaccc 180  
gtccccgagc tgccgtgtgt acgtgaccag ccggacctgc agcatcgggc cgcgcctccc 240  
gtggccggag ctgaagagga gatgctgccg ggagctggcg gtcacccggc cgtactgccg 300  
gtgcacggcg ctgagcatcc tcattgga 327

<210> 11750

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D9

<400> 11750

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aacaacaaat ggtgatgcca ggccatcgtg agtcaaactt gcagaaggaa cttaaccgat 120  
acatccccac tgccgtgca tttggtggtg tatgcattgt cgcattgacc gtcctggctg 180

atttcattggt tgcgattggt tcaggaactg ctatattgct cgctgtgaca atcatataacc 240  
aataacttcga aaccttttgag aacgaaaggg cgactgagct tggtttctat ggtttttgat 300  
cattagctgt ggaaccttaa ctagtctata gatgaatttt cttgtcag 348

<210> 11751  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-022-Q1-K1-E1

<400> 11751

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caggtccgag gattgaaggt agtaagcttc caactagata gcttgattgc ggagccgtag 120  
cgagaaagca tttataggaa aactgttgaa gagctatttt ctttaagtac agtgtatttt 180  
gatgaatang aattagattt gaagattcca gctgatctta taagaagttc tgagaatgtc 240  
aattcaattg tacaggataa tggaagtgtt aggttgagga actatcttgt ccaggctatt 300  
gcgttgcttc ggcag 315

<210> 11752  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E10

<400> 11752

cccacgcgtc cgcaatactt cgcttttgaa atcatgctac gcttgcagaa gggtcagcgt 60  
ctggatcctc gtactgttta ctgaaaacct aaaagatgca cgcaatgccg aacacgatct 120  
ttccatatgc atgtccattc acgggtctca gatgattatt gaaacgccag atttataagt 180  
caccctagag cgcgcattgca tctagttagg agaccgcaaa ggacagggca ccattttat 239

<210> 11753  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E3

<400> 11753

eggacgcgtg ggctgctgca ggccttcgc cgtcgccgc gcataacg cagttccgtg 60  
cgccgcagcc cgaggcaaga gggatctcca gaacgacatt gatctgctca acccgccggc 120  
agaactcgag aagctcaagc acaagaaaga gagactcgtc cgagcggcca acttcttctt 180  
gatggatgtt aagtgccagg ggtgcttcgg cataaccgct gagttcagcc actcccagga 240  
ctgttggtgt gtgccctggc tgccaaactg tcctctgcca acccacagga ggaaaggcaa 300  
ggctcactga gggctgctct ttccg 325

<210> 11754

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E4

<400> 11754

gaggaatatt ccgcatattg gattgggccc atattgttaa tgcgcatata gtacctggac 60  
ctggaatcgt agatggcttg gagctgaagg gtttgccata aggaagaggg ctacttcggc 120  
tcgctgagat gagctctgcc ggcaaccttg cccatgggtga tgacactgct gctgccgtaa 180  
agattgctga gcaacattct gattttgata tgggataaat atcagtaaat actgagtctt 240  
ggtcagtaaa accatcaagc cctgcattta tccatgccac gcctggagtt cagatggctg 300  
caggaggaga tgatcttggg caacaat 327

<210> 11755

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E5

<400> 11755

cagaaacaca ccaagcgaag cgcactagca acaacctatc agcaatggct accaagagat 60  
tatccataat tgcgcttaat gcactttttg cgagcgcaac aaatgcgtcc attatgacca 120  
caatgctcac ttgctcctag ttccattatt acacagttcc attcaccaga tacttaaatg 180

acctaagaac actcaactgt gcaagccgat aggctacaac aagcgagtga agcgatcgtc 240  
 ttacaacaac caattgccta attgcaacaa caatccttgg cgcatctaac aatacaaacc 300  
 atcgcaacgc aacagcaaca ac 322

<210> 11756  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C6

<400> 11756

ggaccaacta gcagcatata atgcacaata atgtaccaac aaaggcagcc aaaagaggtt 60  
 gccttcttat gctccttgga ctatctgcaa gtgctgctac ggcgaccatt ttatctcaat 120  
 gctcacaagc tcttatagct tccattattc caacgatcct atcatcaaag aaatattcaa 180  
 tatggtaaaa tcccaatttt taactctaca tgatatttca agcattagca tcaagcatct 240  
 tacctttatc actcctgggt cgcttcaaca atcatcagcc ctattacagc agttaccttt 300  
 ggtgcattta ttggcacaaa aca 323

<210> 11757  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A4

<400> 11757

gctccttget ctttctgcat gtgttgctaa cgcgaccatt tatectcaat actcagagc 60  
 tcttatagct gaccttctta ctccatacct tccatcaatg accgcttcag tatgtgaaaa 120  
 cccagccctt caaccctaca ggctccaaca agcaatcgca acgagcatct tacctttatc 180  
 acccctgttc tttcaacaat cgccagccct atcttttagtg caggcattgg tgcaaaccat 240  
 cagggcacia cagctgcagc tactcgtgct accagtgate agccaagtag ctctggcaaa 300  
 cctttctccc tactctcagc aa 322

<210> 11758  
 <211> 319  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A5

<400> 11758

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ggcgccgctt taagggaag ctcttactat gctgatctcc ttgatttggt caatgacgtt 120

gagttcaaga cagcttcagg tcagctgctg gaccttatca ctacgctttg tgggtaaate 180

gatctaacia gtgataacat aacagttcac ggtcgaattg ggcattacat gacagtctat 240

tattcattgt atctggcagt tgcattgtcc ctgctgctct atagcgagaa tttggacaat 300

tatggtgatg tacagaaca 319

<210> 11759

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A8

<400> 11759

cttgacgagc tctccacgt cctccaagtt cctcttgtaa tatgaactgt gaacagggga 60

agcgaagtca ttgctgcatt cttacctgtg aacgactgga ctgccttt 108

<210> 11760

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A9

<400> 11760

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agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120

ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcct gcgcaggacc 180

ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240

agatcacgac caaggcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300

tcgggttc 308

<210> 11761  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-022-Q1-K1-B1

<400> 11761

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 tgggtgctac tggtagggag aataagacat catggcctga ggtgggtgggc atgtgcatca 120  
 aggaggcaag agagatcatt cttaaagaca tgcccaacgc tgacattcag gttctaccga 180  
 taggctcgct tgagacccaa gacttttcagc ctgatcggtt tagcatagtg gatgatattg 240  
 ttggctagac tccaacagtt gngtgacaag gatatgcctt atgtataggc caaataaaca 300  
 aagcctactt ttatgtatca t 321

<210> 11762  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-022-Q1-K1-B10

<400> 11762

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 ggtgttttgg atgggaagta tgatgacctc cctgagcagt cattctacat ggttggtggc 120  
 attgaggaag tcattgctaa ggctgagaaa attgccaagg agtctgcttc ataaggaggc 180  
 ttcttgcttg ttcaaccctg tacaagttcc atttttggat tttaagcgtt tatttatgct 240  
 tttcccagtt aggcattgacg agctggagag tccatctcct gctgagagat gtttggttta 300  
 cccttctttg ctttcttcaa cttacacca aattagcaac tgcagtgacg ttggttttgg 360  
 ctgcacccaa acttccttga ctgaagaaac ttgtggcctg tg 402

<210> 11763  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B11

<400> 11763

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actagtacta ccattcagcc agccagctgc tgcctacccc cagcaatttc ttccattcaa 120  
ccaactagca gcattgaact ctcttgcta tgtacagcag caacaactac taccattcag 180  
ccagctagct gctgtgagcc ctgctgcctt cttgacacag caacaattgt tgtcgttcta 240  
cctgcacgct gcgcctaacg ttggcaccct cttacaactg caacaattgc tgccattcaa 300  
ccaacttgct ttgacaaacc cagcagcgtt ctaccaacaa cccatcattg gtggtgccct 360  
cttttagatt gcttatgagt tatagttcaa taataaagtg tttttgatga a 411

<210> 11764

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B12

<400> 11764

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cctctctccg ctcccgcctc tgctccgcgc cgccgtcgcc gcaccatcac ctccagccca 120  
gccgcggcta ccacgtcgag ctccggcgtc gcgagaaagc gcttttggag gaggatgttg 180  
ctttgaagag gttcaaata tacaagaaca gtgtgaaaca ggtctccaag attgggaatg 240  
ttctcacttt agctgttgta ttccgttgta gctacgagct tggtttggtg gcggcaagca 300  
tgaagtgaag gaaaacacag ccattattcc gggaagtgat ccatcagcgt agactgtcat 360  
tctatcacct cgtgttttta gcctgtctgt ctctctctta ttttgctgtg caccatgtat 420  
aaaataaaac taaacta 437

<210> 11765

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B2

<400> 11765

agcacgcgtc cgcgcaaatt gcaccaagaa atccatcgag aggccatcga caggggagtg 60

agaggcgctg tcgtctagca gcatgcctcc ggcggtcat cctcgcaacc gccg 114

<210> 11766

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B3

<400> 11766

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tctaggccta cgagacgctt agcgaccgag cgccctaccc ggccagcttc atgctctgcc 120

agctcaccgg ctctacgcc ttcgtgctgt tcgacaagtc catccactac atgatagtct 180

gatgagccc ctatgacaga ttgccgaatt tctgggagat caacgcataa tgctgcatcg 240

ccttatacga cgacatcgac atactcaaag gctcatgagg cagtgcgctc gcgcggttcc 300

cgcaaggctg cttctact 318

<210> 11767

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B4

<400> 11767

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<210> 11768

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B7

<400> 11768

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atattggcat aggaacctag gaaccaagtg tcgtctccat gagctttcaa acaagcgaag 120

gatctctatt gctggtgctt ccaaactgtt gactaacatc ctttattcat atcacgggat 180



gggactgtag ataggtacaa tgatcgctgg atgggatgag aaggatcctg gctaggacta 240  
 tgttgacaga gaggggtgcg ggctcgctggg gaacaggttg tctgttggct ctggttcact 300  
 gtatgcttat ggtatcttgg atga 324

<210> 11769  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B8

<400> 11769

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 tgcctattat ccagtttagt ctagggtaac tggtaaagtt gctcacccca gctcatgctc 120  
 aggaagtgca cacctccctg aggtattggc taaatgccaa tatcatccct gactgagctg 180  
 catctactat tatcatittc ttaagcagtg taactactga taactgtaaa gagctttcat 240  
 cacattctga tgaagatgaa taaatgccag aggagcttct ttgaagcctg acttcatcga 300  
 catcatcaac gcgggtca 317

<210> 11770  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-B9

<400> 11770

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 cttcttccac taacctgtac tgcttgtacg ctctcacgc cgacctgact gacgcaatac 180  
 aacgccggtc atgcgaagcc ttcgtgccac ttcttacgca ccctgatcc cgacatcaag 240  
 tccatgcaga tccaccacga cgcgcgccac cccaaactcc cctt 284

<210> 11771  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C1

<400> 11771

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gacatctcga agccccagcc ggtggcgtgc ggcgacgagg ccgcggcggc tgccaagggg 180  
aggatcggta gagtgttctt ggagctagat caggactacc tgcatgtcat tcacgacctg 240  
aagctacaga gccattagaa gactgacatc tctcaccatt attgaggccc aactgaatgg 300  
cctcaactcc cgagttacaa tgctcagga agagttgcag ttgcttcaag agcctggc 358

<210> 11772

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A3

<400> 11772

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tggcgaccaa gatattttcc ctcttatgc tcttgctct ttctacatgt gttgctaacg 120  
cgacaatttt ccctcaatgc tcacaagctc ctatagcttc cattcttccc acatacctta 180  
catcaattat agcttcaata tgtgaaaacc cagctcttca accatatagg cttcaacaag 240  
caatcgcagc aagcaacata cctttatcgc ccttggtggt tcaacaatcg ccagccctat 300  
ctttggtgca gtcattggta caaacatca gggcacaaca gctgcagcaa ctctgctac 360  
ctttgatca 369

<210> 11773

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C11

<400> 11773

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gtgacttcgc ctctgccaca gcaaggcggc cgctcgattcg gcggcggtgg cggatccagc 120

tccggcggaa agcgacagag gggagatgat cgtggcagta gccgcagggg ctggcaccgt 180  
 ccgtattgat gtttgccatg ccgctgattt gcaattagaa gttagaacct agcaattagc 240  
 atatttatcg cagtaccatg ctggaaactg tactttgaat tatttgtttt tcctgtgtgc 300  
 ttcgtaacag gcctgcccta aaaagaatga tagtaccgca aggggcaaata gtagtggttaa 360  
 tataatctat acatttgtaa ccattctcat cctgcgttga ccgtcttagg ttattaaaat 420  
 aaatatattt cctccgttct tttt 444

<210> 11774  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C12

<400> 11774  
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 ttgaccccg cggccggcga gctgctcagc gcggcttttt tttgcatcca caatgccgca 120  
 gcttggcaca tggtcattgc ctggagctgc aatctatggc acttcaacta ggagatttgg 180  
 aggtttggag tttcagcaac ataaagttaa tcacatctca tttggtcgga aagcgtctgt 240  
 taaagcaaca ttgaaaactg tgagatgcaa tgccactcaa acacaaagcg tccaaaagaa 300  
 atcttcaagt gcaactattc agcgtgataa gaaaggaaat gtacaagggc caaaactgga 360  
 tgacggaagc ggtgggttcc ctccattccg ctttggcaaa ggtgggggtg gtggtggaag 420  
 cgggggaa 428

<210> 11775  
 <211> 128  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-C2

<400> 11775  
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 tttccaac 128

<210> 11776  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-C4  
  
 <400> 11776  
  
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 gttgcataaa tagtatatac cgtttggcgt aaaacgttaa gtcatttgtgt gtaaatagtg 180  
 tattatggat attagattga cattgacatc gccataatat cgggactgtt tcggaaataa 240  
 tgggtagacc ctgtaaacgt ggatgcagtt acttgtatag tatacgtgat ttcctttcat 300  
 ccgaaaaaac accacaaagc ctgca 325

<210> 11777  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H10  
  
 <400> 11777  
  
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 aatgttacat tattaggaag cggatgaata tgcattgcagt tttgttggtt ggaactagat 120  
 gtgtatggaa gaaacatgat cttttttctc ggagggttaa aattatatat ttagggtag 180  
 tttgaaaact tcatttttcc aagggtttc tattttccct aggaaaaatg aactggtttc 240  
 ccaaaccagc ccatgatgca tttcccgccc tgagtatcgg gcctttttct ctgtccaaaa 300  
 aaaaaaaca aaaaataaag tttttttt 328

<210> 11778  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H11  
  
 <400> 11778

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 ttatcgccct tgttgtgtca acaatcgcca gccctatctt tgggtgcagtc attggtacaa 180  
 accatcaggg cacaacagct gcagcaactc gtgctacctg tgatcaacca agtagctctg 240  
 gcaaaccctt ctcctactc tccgcaacaa caatttcttc cattcaacca actgtctaca 300  
 ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct agctactgcc 360  
 tactctcaac aacaacaact tcttccattt aaccaattgg ccgcactgaa ccccgctgct 420  
 tatttgcagc agcaaatact acta 444

<210> 11779  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H12  
 <400> 11779

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 gctcgcggtt gccagcgcca ggcgcgggac ctctgcgtg ccgggggtggg ccatcccgca 180  
 caaccgctc ccgagctgcc gctggtacgt gaccagccgg acctgcggca tcgggccgcg 240  
 cctcccggtg ccggagctga agaggagatg ctgccgggag ctggcggaca tcccggcgaa 300  
 ctgccggtgc acggcgctga gcacctcat ggacggcgcg atcccggcgg gcccggaacg 360  
 gcagctgga 369

<210> 11780  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H3  
 <400> 11780

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 accgtcctta gggctctgtg tcacagaaat gattcagagg catcacatta cgtgaagaag 120

caattcaaga taccagctc agctccgagc gcttgattga ttgcgaacga aaaaacagat 180  
atcgaacagg acagtgcagc cttgctcgta acccaagaaa cgggtgctcca cgcgccattt 240  
tcatgtttgt gtaacagtta ttgttcacg gtaacactaa gactttgggt ggacgcggca 300  
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<210> 11781  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H4

<400> 11781

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ctattcgaaa attatggcaa gaaagatcca gcctgtgtgg caaaagtga gaacctctac 180  
aaagaacttg acctagaggc ggtatttcag gagtacgaga atgagagcta caagaagctg 240  
attgcagaca ttgaagccca gccaaagcatt gcggttcaga aagtgtgaa atccttcttg 300  
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<210> 11782  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H5

<400> 11782

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atagacgata ttcattgaaa ctgacgttta aagagcagtc tttccttgat cggaatcctc 180  
gccaggttca aggagtgtc aacgatgctg atggaagcaa ggtcgcaaca ttgatgggga 240  
agtgggatga aagtatgcat tatatcatca acaatgatgc ctccaagacc aactcccatg 300  
gttcacatga gggttctggt gccactttgc tatgggagaa aaacgagcct ccagtcaatc 360

ccactcgcta caacttgtgc acatttgcaa taacattaaa tgagttaaca c 411

<210> 11783  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H6

<400> 11783

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aagaagacgt actgcaagaa caaagagtgc aagaagcaca cactccacaa ggtgactcag 180  
tataagaagg gcaaggatag cctgtctgcc cagggaaagc gccgttatga ccgcaagcag 240  
tcacgatatg gtggtcagac caagcctgtc ttccacaaga aggccaagac caccaagaag 300  
aatgttctga agctgcaatg ccagaacttc aagcactact taca 344

<210> 11784  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-H8

<400> 11784

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gaatatggat gtcgtttgag ttgcaat ttt gtgagactga atgtgaacc tttttctcat 180  
tccttaaata gttgactgcc agtggtcgtg gtttcaaacg aaatttagtc ttattaactg 240  
aatttgcgta ttcaaagga ttgctgggt gcctgggttat gttttgaatt ttgctgcgcg 300  
gtccaataat tcgatggact ggacccaagg aaatttgaat ccgaatggac tgatacgttg 360  
tatttt 366

<210> 11785  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-021-Q1-K1-H9

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gacaattttc cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc 180  
atcaatgata gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc 240  
aatcgagca agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt 300  
gggtgcagtca ttggtacaaa ccatcagggc acagcacctg cagcaacttc tgctacctgt 360  
gatcaaccaa gtagcttttg caaacctttt t 391

<210> 11786  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A1

<400> 11786

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gttcgtgggt cagcggatcg agaggtggag tatgcgatgt tgagtaccgc tgcctcgtag 120  
ggtgactcgc ctgggccacg gacgac 146

<210> 11787  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-A10

<400> 11787

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gaattacaag ctgtacatgc taattcttct actggggcaa atgtcacagc agctgccgag 120  
tttgccaagc gcattctagt ttctaattca aaggaagaga aggctgaagc tgagaaggat 180  
aggaatagga gatccagtga agctcgtcct aatgatgagc gaagagagaa gctacatgat 240  
cgcgagaagg ataagcccaa gtcagagAAC aagaagattc tggatgcaaa gcaactaatt 300



gatatgatcc caaggacaaa ggaagagctt tttgcctatg atataaactg ggcgatatat 360  
gacaagcatg agttgcaaga gagaatgagg ccttggattt caaaaaagat aattgaattt 420  
cttggcgagg aggaatcaac tt 442

<210> 11788  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-022-Q1-K1-A11  
<400> 11788

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aggagcagcg atagagcaac aatggcggca aagatatattt ccatccttat gctccttgct 120  
ctttcttcat gtgttcctaa cgcgaccatt tttcctccat actcacaagc tcctatagct 180  
gcccttcttg ctccataact tccataactg accgcttcag tatgtgaaaa cccagccctt 240  
caacctata ggctccaaca agcaatcgca acaaacaact tacctttatc acacctgttc 300  
tttcaacaat cgccagccct atctttggtg cagtcattgg taaaaacat cagggcacaa 360  
cagctgcaac aactcgtgct accagtgatc agctaagtag ctctagcaaa cctttc 416

<210> 11789  
<211> 328  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-022-Q1-K1-A2  
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gatttgtttg cagcctccac ggtcagaaac tgaaaaactc attgcagacc ttgagaagga 180  
gataactgat ttgaatgctg agaatgtagc atgcataagg actttgtaac tgaggaagaa 240  
gcagtttgcc cttcttctac atgtggttga ggaattgcag atctcgattg aagatgagca 300  
gaagagtata gcagatgagc tgagaact 328

<210> 11790  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G9

<400> 11790

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acaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcgggtatg 180  
tgaaaaccca attcttcaac cctataggat ccaacaggca atcgcagctg gcattctacc 240  
tttatcacc ttgttccttc aacaatcatc agccctatta cagcagttac ctttggtgca 300  
tttattggca caaaacatca gggcacaaca actacaacaa cttgtgctag caaaccttgc 360  
tgctactct cagcaacagc agtttcttcc attcaaccaa ctagctgcat tgaactctgc 420  
tgcttatttg caacaacaac 440

<210> 11791  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F3

<400> 11791

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aaaaaaaaaa acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 120  
aaaaaataaa aaaaaaaaaa aataaaaaaa aaacaaaaaa aaaaaaatga aaatacacia 180  
aaacgctaaa ttcaattata tcaaac 206

<210> 11792  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F4

<400> 11792

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tccttcaaca accgttagcg gtattacagc agttaccttt ggtccatttg gtggcacaaa 120  
 acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca tactctcagc 180  
 aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct tatttgcaac 240  
 aacaattacc attcagccag ctagttgctg gctaccccca gaaatttctt ccattcaacc 300  
 aactagcagc attgaactct gctgcttatt tacagcagca acaactacta ccattcaatc 360  
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<210> 11793  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F5

<400> 11793

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 gtcagcagct gcaagggcgg cgccgcggga gcgcctgtga cgacgcccgc ggggcagacg 180  
 gcgccggcca cgggggtccaa gacgacgcc gccacgtcgt ccgtgcccgg tgccgacgcg 240  
 tcgccgtcgg gctcggttgg ccgtctcgtc gccggcttct tcgtcgccgc agacgtcgtc 300  
 g 301

<210> 11794  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F7

<400> 11794

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 ggggaaggag gtgacggtgg aactcaagaa tgacctggcg atccgcggga cgctccactc 180  
 ggtagaccag tacctcaaca tcaagctgga aaacacccgc gttgtcgacc aggacaagta 240  
 tccccacatg ctgtcagtgc ggaactgctt catccggggc tcggtggtgc ggtacgtgct 300

gctcccgag gacggcgtgg acgtggacat cctgcacgac gccaccagga gggaggcgcg 360  
 cggaggctga tcggcatcgg catcggggccc cctcacctgt gctgcttctc cccc 414

<210> 11795  
 <211> 283  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F8

<400> 11795

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 tggagcgtgc cagtacacct acaagtacag cgggcacggg gtgacgaagg gcaccctggc 180  
 catagacaag ctggccatcg gaggcgacgt tttccacgcc gtggtcttcg gctgcagcga 240  
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<210> 11796  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11796

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 ccagaccagg gttccgaggc accagctgcc cagcgatctg cttgctgcgg ctcataagca 180  
 gatgcacgat ggccatagcc tttggttatt tgacattatt tatttccgc ttggctgtta 240  
 taggaaggat ttgaagaagc cacttatgat ataccgatgt ggttgactc gtggttgctt 300  
 ccattctttg aagcaaccac ctcttgctgt tgacgtagct attgctattg ctgggagcta 360  
 ttgcactctt gcattngat ccgttgaaa aactctcccc tccctacagt gtgtaatgaa 420  
 tgaaatccat atcgntgggg ttgc 444

<210> 11797

<211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-G1  
  
 <400> 11797  
  
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 aaaaaaaaa caaacacac ttaagttcac atctttctct actcatgctg tctactttct 120  
 tctcactccc atagtacctc ctcatattaa atacacatgt caatgcttct tcaacggccg 180  
 tactttgaat accctgggat tacctaacc aatgcgcttc cggaataacc ccctttttac 240  
 atatttcgtg ctctctgcag attccctaac cgatctcctt tttctactat tccacatcct 300  
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<210> 11798  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 11798  
  
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 caagacgatg cgcgtgagct gattgctggg cgtgaagtcg tatgtagttt agcgggttaa 180  
 cgcgtttaac tttagtctat cttattacta tctatcttag tatcttatta ctactactac 240  
 aaacagtccg tctagtatct tactatccaa ctagtatctc atcatacatc accagtccag 300  
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<210> 11799  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-G11  
  
 <400> 11799

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 aggtgctccg cgacaacatc caagggatca cgaagccggc gatccggagg cttgcgagga 180  
 gggcgggcgt gaagcgcata tccggggtca tctacgagga gaccgcggc gtgctcaaga 240  
 tcttctctga gaacgtcata cgcgacgccc tcacctacac tgagcacgcc cgtcgaaaaa 300  
 ccgtcaccgc catggacgtc gtctacgcc tcaagcgcca gggccgcacc ctctacgggt 360  
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<210> 11800  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-G12  
 <400> 11800

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 actcttcggg attcatccaa tgatggcatg gaacttgtga caaactttga atcagacaaa 180  
 tctcctgcag aatttgcaaa atcatataaa gaagatgaac ttcttgaggg acatgttata 240  
 atgcttggct cagatcctgc aagccaggct gctgcactcg aggcaactaca tgcataatcct 300  
 ggtggcttgc aagttggagg tggaataaat ttgcagaatg caatgtctta ccttaatgaa 360  
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<210> 11801  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-G3  
 <400> 11801

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tcggtatgtg aaaacccaat tcttcaaccc tacaggatcc aacaggcaat cgcagctggc 240  
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca acagttacct 300  
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<210> 11802  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G5

<400> 11802

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atgggaacgg tcatgtcacg gatgatgtca atgtttctgc tccagctgaa gaaggaattt 180  
tgcgagaaaa aagagcaciaa tgcgctcaag ggtttcttcc atgcaaagat aacaagtgct 240  
actgttgcac tggggggccga actcatgatt gctactatac gatggctcag tgtagtcacg 300  
catgcttcta atcaaaaatt aagatcactg tttttatata caatgtaatg gtaggcaatg 360  
ctattaataa tacataaagg aatttttagtt ttggt 395

<210> 11803  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F2

<400> 11803

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catttctgct cctagcaagg atgcccccat gttcgttggt ggtgtcaacg agaaagagta 240  
caagtctgac atcaacattg gctctaagtc tagctgcaca accaactgcc ttgctccgat 300  
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<210> 11804  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G7

<400> 11804

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 cacaatgctc acttgctcct agttccatta ttccacagtt cctcccacca gttacttcaa 180  
 tggccttcga acaccagct gtgcaagcct ataggctaca acaagcgatt gcggcgagcg 240  
 tcttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta acaatacaaa 300  
 ccatcgcaac gcaacagcaa caacagttcc taccagcact gagccaccta gccatggtga 360  
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<210> 11805  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11805

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 tcaacacgca agggctccgg cagcagaggc cctacaggta cgacattaag cggtcgggga 240  
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 actttccggt cggcatctac cccgtcgaca aggtgccggt tccctacgag ctgttcgggc 360  
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<210> 11806  
 <211> 417  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D9

<400> 11806

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ggcgtcgaag cggatcctca aggagctcaa ggacctgcag aaggatcctc ccacctcttg  180
cagcgcaggc cctgttgccg aagatatgtt ctactggcag gcgacgatta tggggccatc  240
agatagccca tacgctgggt gcgatatttt ggtcactatt cactttccac cggactaccc  300
attcaaacca ccgaagggtg cattcaagac gaaggtttac catccgaata tcaacagcaa  360
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<210> 11807

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E1

<400> 11807

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ctaggcgcac gagaccaagg tcaagggccg ggccctccatt ggccctcatgc aagccaccgt  180
caagctcgac tgatacgggt accagaccga tccgcttgat ttacgcctgc ctgttggcta  240
tagcagcgtc cagaggcctt gcgcctgtgc aaggatcctc aatgtttgct gtgtgaacag  300
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<210> 11808

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E11

<400> 11808

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 ctacttgcaa cagcagctgc ttgcatccaa cccacttgct cttgccaacg tagctgcata 240  
 ccaacaacaa caacagctgc aacagtttat gccaatgctt agtcaactag ccaggtgaa 300  
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<210> 11809  
 <211> 410  
 <212> DNA  
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<223> Clone ID: LIB3059-021-Q1-K1-E12

<400> 11809

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 ggaggtgatt acatcactgt cgacgagctt caaaaggctt cagtgggaaca cgagatgaaa 180  
 aatgctttcc ttgaggacac cttttatcag gttgatcaga acaatgacgg ccagaccaac 240  
 tatggcgagt tcgtcacaat gatgcagagc gacagctctg ggcttgggtg gcaaacaatg 300  
 gaaagcagca tgaacgtacc cctggaggag gcacctgaag tttactgatg tctctgtcgg 360  
 tgcaaagata ctgttctatt tggctgcttt cgtggtggtt cgtcagtcac 410

<210> 11810  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E2

<400> 11810

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 caagctcgag gaagctgtta ggagtgtcca gatggaagga ctgctttggg gcgcatccaa 120  
 gcttgtccca gttggatatg gcatcaagaa gctgcaaata atgatgacca ttgtcgatga 180  
 ccttgtctct gtcgacactc tcacgagga ctatctctgc gctgagccag tgagcgaata 240

cgtccagagc tgcgacattg tcgccttcaa taagatctaa atttccttgc aatggtggat 300  
 ggtggacact gtaccagcct aatttataat tttccatgag catcttcagg agtttttcta 360  
 aagtatcatt tggagtcatt tacataaaaa gcactttcta tatctttgta atcaccaaca 420  
 acttt 425

<210> 11811  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E3

<400> 11811

gaaagaaagc tcgtattggg aactacagtt ccagtactcc aaagtgtact ccagaagtaa 60  
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 ctttggttgt ggatctacta agggagccgg atacatttgg cagcaaagtt attggctgtt 180  
 ttgtgagaat aaagattgat ctcaacgatt atagtttcta catgcataaa aaggtgcacc 240  
 aacatagaaa gttgtatcag cttggactag taacaggcac cagtaaatacc cctgaagaat 300  
 acaagataaa tgatgtatca acagatattc ttttatgtat ttccagcata cctgacatca 360  
 aaatttcaag tttgtcagat gaagaa 386

<210> 11812  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E4

<400> 11812

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 tatccctctt tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattcccc 120  
 aatgctcact tgctcctagt gccattattc cacagttcct ccctccagtt acttcaatgg 180  
 gtttcgaaca cccagctgtg caagcctaca ggttacaaca agcgcttgcg gcgagcgtct 240  
 tacaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca 300  
 tcgcaacgca acagcaacaa caatttctac cagcactaag ccaactagct gtggtgaacc 360

ctgtcgcccta cttgcaacag cagttgcttg cattcaaccc acttgctctg gcaaacatag 420  
 ttgcat 426

<210> 11813  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E6

<400> 11813

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 cggctgtact tgatgtgcag gaagaagaag agattgtatc cgccgctgtg cccgtttctg 180  
 tgcacgatgt ggctcctttg cagcaagcag agataggtaa agatgtacca aaacatgttg 240  
 aaaaggaggt tgaggttccc caatggctga agagtcttgc tggtgaggaa gcacaggact 300  
 ggagagcctt tgtccgcact aggatcaatg ggcatactga taggacctat act 353

<210> 11814  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E7

<400> 11814

aaggaaatga aggttacgga cgtgcagatt atttccttgt tggcaaggac ttccccagct 60  
 atattgaatg ccaagaaaaa gttgatgagg cgtaccgaga tcagaagtta tggacaagga 120  
 tgtctatcct caacacggct ggctcatcca agttcagcag cgataggacg attcatgagt 180  
 acgccaagga tatctgggat atcagccctg ccatccttcc ctagaccagg tggatatcag 240  
 gttctttcgc ctatatttct gtgaaccctc aggatcaagg aacagttggt gacgacatta 300  
 atttgcctca gccccttagc aggaagcgct ggtcacctca gttttgtgta gacaaaatct 360  
 aggcatcgat aaatgatggg ggactatgca tgggtgtttg gcagcactgt tcagta 416

<210> 11815  
 <211> 348  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E8

<400> 11815

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tctttcacca gcagccacag tgggtgatct accatgaaat tgtgatgaca aaaaagagt 120

atatgagga tgtcacagcg gtggaccaa gatggctact agagttggca ccgaggtcgt 180

acaagtcggt ggacccaacg aagatcagta agcggaagcg ccaagaaagg attgaacctc 240

tctatgatag atacaatgaa cccaacttgt ggcgcctgag taagcgccgc tgggtatatt 300

tcatcatgtc ttgcacgtct ttgatgtaat gttactgtag tgtatata 348

<210> 11816

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F1

<400> 11816

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cgggcgcgtg ggcaagccca aggctgcttg atcatagacc tttgcaggta catccaatag 120

aacttttgaa gttatgctat gccattggaa tgattagtga gtgccgcagt tagaatgatg 180

tttaaagaag agctaccact tcagcagata atttgtgact tgcttgcatt ttttgaccg 240

atttgttcgc gtattaataa ttttgcagtg acgatacttc tgttgtgctg ttataagct 300

tctgaaaaaa attaaacccc ttagcaggaa ccagcttgta aactcatttt tgcggcaaac 360

aaaatcta 368

<210> 11817

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F10

<400> 11817

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cttaataaaa aatcttgaaa atgttatgcg caaatctctc caatccttgg agttctttga 120  
 ggaaaatgag aggaagaaac tcgcatatt cacagccctt gcattttctc aaaagctgtc 180  
 agggcttcct ccggagacag tgttccagcc attgctcaag gataatctgg ttgccaaagg 240  
 gatagtactt tcattcataa ctgagttttt caaggagtac ctgaaggaaa acaccttgga 300  
 tgatttgatt gcgcttttga agaaaggaaa aatggaggac aatctgttgg acttttttcc 360  
 atcagctaag agatcctctg aggctttatc tgagcatttc atcaaagaaa gtctgactaa 420  
 gccttgtgag tacaatgaaa aga 443

<210> 11818  
 <211> 152  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F11

<400> 11818  
 caaccactt gctctggcaa acccagcagc gttctaccaa caaccatca ttggtggtgc 60  
 cctgttttag attgcttatg agttatagtt caataataaa gtttttttga tgatgtttgt 120  
 ggcttcccag aaataagaaa gtacatttct ag 152

<210> 11819  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F12

<400> 11819  
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 ggatcagcta cagggcaggt acaaggaagt gagacggaaa cagattctgt tcagagcgca 180  
 actcaagctg gagctaaccg tgatgaacag agtgcgctc agtgaacaga gtgtcgctca 240  
 gtgaagatct cgggtggcaa gccaaagtgt ttgtgatgga tgggtgtgcct tatctttgtg 300  
 tgatgttggt cttgtctact agagtgactt gtggcctgta tcatgctgtg ttatactcct 360  
 gtttttgttt tcctgcgatt gagcctgtat gttgcttata aatctagata gcttttgttc 420

ataatctaca gata

434

<210> 11820  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D7

<400> 11820

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ccgtcgggcg tttatagggt gaggcatttt ggtgcctcca aaccactgat tgggtccatc 120  
aaacatttta cggggacctc tcgggcggtc gcagtgcgtt aggtagcaca ccgttgcggt 180  
gcgttgcggt cgacggcaca cctgtcagag aatcgacacc gggtcataata cttactgtgc 240  
atacctgcc aagtatatgg acatgttttt ccctatagtt ttt 283

<210> 11821  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C10

<400> 11821

cccacgcgtc cgatatgaat caagacacaa cgccgaaaag catctcgatc gaagatgcat 60  
acaagagcat agttcaaata ttgaaagacc agctgaagaa gctctccttt ctagggaaag 120  
gagatttctg cctgctgcag ggtacatgcc gaacccaggc ggctcggatt tccgctccag 180  
gtcgcgccgc gaatattcag cacaacgcc acaaatgagg tttgatccat tcacaggtga 240  
accttacaag tttgatccct tcacagggga gcccatcagg ccagatccga accagcgccg 300  
ctcaggaagc ctgtactgat cagattagtt ggagcgatat gccagataag accctgaaac 360  
aaagctagat ctggataact cttcttcttg tctgccaagt gtctctgtga ttttgcttgt 420  
gggctacaga tcatgtaccc cgagcacca 449

<210> 11822  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-021-Q1-K1-C11

<400> 11822

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ctaccgctgc tcgcgttgac tcgcattctt ctccattcag tgactccttg gatcggtcca 120  
gggacacgca ctagcgatct gtgtcggcgc cgaatcttgc ggcatttctg cgctattgtt 180  
gccccggagg agtggttttg atccaagaaa gtgatcagcc ttcttggttg gatctcctcc 240  
cgcaatggcg gcgctcctgg agctgttctt ggactcctct cccgcgcggg tggactggga 300  
ggcagaggtc taccggcgtt acggggactt cgcgtactc cccttactcg tcgccttctt 360  
ccccgccgtc cggttccttc tcgaccgact cgtcttcgag gttntagcac gaaaatttat 420  
at ttggaaag ggacatgat 439

<210> 11823  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C12

<400> 11823

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cggtttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120  
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacg 180  
cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc ggggcttcg 240  
cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300  
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggc 349

<210> 11824  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C2

<400> 11824

cggacgcgtg ggcggactcg tgggctttcg cgttggaata aaaaaaaaaa aaaaaggaaa 60



aaggaaaaaa aaaaaaaata aaaaataaaa aaaaaaaata acatataata ataaaatata 120  
 aaaaaaaata aataatataa aaa 143

<210> 11825  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C3

<400> 11825

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 ccaattggcc gcaactgaacc ccgctgctta tttgcagcag caaatactac taccatttag 120  
 ccagctagct gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcctttcta 180  
 ccagcagttt gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt 240  
 ccaacttgct ttgacagacc cagcggcctc ctaccaacaa cacatcattg gtggtgcctt 300  
 ctttttagatt gcttattagt tgtaattcaa taataaaagt ttttggatga aaaaaaataa 360  
 ttttttagtat tagttaaact aattgtaaaa ccataattaa aaaaaaaaag ggccggc 417

<210> 11826  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-021-Q1-K1-C4

<400> 11826

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 atggtcaaga accgccagcg caagctcttc accaacatct ccggcgacgg ctcttgggac 120  
 tcggacggtg tttggagcca cgtggtgttc gagcacccca agacgttcgc gacgctggcc 180  
 atggacccgg ccaagaagaa ggaggtgatg gacgacctgg acgcgttcgg caacggcaag 240  
 gactactacg cgcgcacg cgcaaggcgtg aagcgcggct acctnctgta cgggccga 298

<210> 11827  
 <211> 424  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-C8

<400> 11827

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gatggcccg acgaagcaga cggcgaggaa gtccaccggc ggcaaggcgc cgaggaagca 120  
gctggcgact aaggcggccc gcaagtctgc ccctgcgacc ggcggagtga agaagcccca 180  
ccgcttccgc cccggcaccg tcgcgctccg ggagatccgc aagtaccaga agagcacgga 240  
gctgctgata cgcaagctgc cgttccagcg cctggtgcgg gagatcgcg aggacttcaa 300  
gaccgacctt cgcttncaga gctctgctgt ctccgcgctg caggaggcgg ctgaggccta 360  
ccttgctggg ctcttcgagg acaccaacct ctgcgccatc cagccaagc gcgtcaccat 420  
catg 424

<210> 11828

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D1

<400> 11828

ctgaagagga ttggaccgaa gtggtttcgc ggtgtccgaa ggcattggact catcatgggc 60  
tggtccacaa caggcttcaa gagagagcgc ggtgactctc ccttggagct tgggtcccaag 120  
gcggaggatg tcatcaagcc attgaatccg atcaccttac tcttacgctt tctcgtacga 180  
acgatatgtg ctgcctacta tgttctggtg cctatttaca tgtggataaa ggaccagatc 240  
gtgccaaaag gcatgccaat ctgagtgaag ggaatgagct gcatggaata gaggatagcc 300  
aacgtctgaa tcttactctt ctgtatatta 330

<210> 11829

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-D10

<400> 11829

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 gaagtgccag cgctaaccag ctgtaatctt ttttgaaatt ggtgggttgaa catggtgcag 120  
 atacagcagg acattgggag atatatagca gacaagattt agagaagctc agattacctg 180  
 aaagggcact gcctttttgac ggagggacag tcgctaatac aacaccataa acagaaagtc 240  
 agaaattgct gtcagtggac agnacccaaa caactgagat tttgaagcga tcgctcgtag 300  
 tcaatcacia caatcttctt aagttagtgt agaggaattc ttcttaatgc tggcatctgt 360  
 caactatgt 369

<210> 11830  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-D11  
 <400> 11830

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 ccacgcaaag tggactgttt agcaagtact atgaaaggct caaagagatc cgtgaatatc 120  
 atcggcgga cccatctgcc cgctttgtca gtacaactga tgactatgaa gagcttctaa 180  
 aggaggaacc agttattgaa ttcactggcg aggaaacttt tggccgttac cttgacttgc 240  
 atgagcttta taacgagttc ataaattcca agttcggaac actgatggaa tattcagctt 300  
 atgttggtctg tttctcccag acggacaaga tctcacatag tcataaagct accagaaaat 360  
 acagagaata cttggaacac attttggaat atctgacatc atttctgtat cgcacagagc 420  
 cattgcaag 429

<210> 11831  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-021-Q1-K1-D12  
 <400> 11831

aaaaaaaaaa aaaataaaaa aaaaaattaa aaattaa aaaaaaaaaa aaaaaataga 60

aaaaggaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaattttttta ataaaaaaaa 120  
 ataaaaaaaa taaaaaaata taacatatat aaaaaataaa aattaaaaaa tataaaaaaac 180  
 ttataaaaaac aacatacctt ttattaaaat aagcggcccc tttttaaaat tccccatttt 240  
 ttcacttggtt tttatttcaa taatatcttt ttttatttga cccccaaatt ttttttactc 300  
 tttatttttt taaaaatatt ttttt 325

<210> 11832  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-021-Q1-K1-D2

<400> 11832

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 cagctgcggc tgccagccac cgccgccggt tcatctaccg ccgccggtgc atctgccacc 180  
 tccggttcac ctgccacctc ctgtgcatct tccaccgccg gtccacctgc cgccgccggt 240  
 ccacctgcca ccgccggtcc atgtgccgcc gncgggttcat ctgccgncgc caccatgcca 300  
 ctaccatac 309

<210> 11833  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D3

<400> 11833

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 aagttgggaa acccaggaga gtttaccatg ttggagctag cacaggttgt gaaggaaaca 120  
 attgacccaa tggcaaccat tgaattcaaa cccaacacag ctgatgatcc ccatatgaga 180  
 aagccggata tcaccaaggc taagcaactg ctacattggg agccaaacgt ctctctcaga 240  
 gaaggccttc cgctaattgt caaagacttg cgtcaaagga tctcggatga gtaatcgagg 300  
 caatgctacg atactggtga ccggttcgat tctgaactat gctgcaaata cagtcagaag 360

ctctttatcg attggagcca tgcagtacaa tgtactgtg

399

<210> 11834

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D4

<400> 11834

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gtgacttcaa tgggcttcga acaccagct gtgcaagcct acaagctaca acaagcgctt 120

gcggcgagcg tcttacaaca accaattgcc caattacaac aacaatcctt ggcacatcta 180

accatacaaa ccatcgcaac gcaacagcaa caacaatttc taccagcact aaaccaacta 240

gctgtggtga accctgtcgg ctacttgcaa cagcagttgc ttgcatacaa cccacttgct 300

ctggcataca tagttgcata ccaacaacaa caacaattgc aacagt 346

<210> 11835

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-D6

<400> 11835

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aggctccttc tctttagatt cgtcgtcctt gcgcagcaga tcgagaggct gaggggagag 180

ggatccatgg agctgggaaa gcccttttcg gcgcacagat gtagctacac cgctacctac 240

accactgtt ccataggctt ctcccctcgg gtcgtccgta ccagctggat ccgcgcggcg 300

gctgatggcg gcgacggcgg ggcagaccgg cgacggaaag gtgccagc 348

<210> 11836

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C1

<400> 11836

cgcgcggcga ccacccgatt cgaagcgtgc ggagagaccg aagaagcggg agagatggct 60  
cgtaccaagc agactgctcg caagtccacg ggagggaagg ctcccaggaa gcagcttgcc 120  
accaaggctg cccgtaagtc tgccccacc actggtggag tgaagaagcc tcaccgctac 180  
cgccctggaa ctgttgccct ccgtgagatc cgcaagtatc agaagagcac tgagctgctg 240  
atcaggaagc tgccctttca gaggctcgtc agggaaattg cacaggactt caaaactgat 300  
ttgcgtttcc agagccatgc ggtgcttgcc ctccaggagg ctgctgaggg ataccttggt 360  
ggcctcggtg aggacaccaa cctgtgcgcc atccatgcta agcgtg 406

<210> 11837

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A4

<400> 11837

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gagtaaccgg gcagcagttt atattgaaat gggaaagtac gatgaatgca tcaaggactg 120  
tgataaggct gtggagaggg gaagagaact tcgtgctgat ttcaagatga tctcaagggc 180  
actgacaaga aaaggaacag ctctagtcaa gcttgctaag acctctaagg attttgatat 240  
tgccatcgag acctaccaga aggctctaac tgagcatcgg aaccagaca ctcttaaaaa 300  
gttgaatgag gctgagagag cgaaaaaaga gttggagcaa caagagtact atgatccaaa 360  
attagcagat gaggacagag agaaaggcaa ccag 394

<210> 11838

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A5

<400> 11838

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tcaccgccgc aagaacaaat cccttgaggg gctgcaggcc aatgtccaga ggcttaagac 180  
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<223> unsure at all n locations  
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 <212> DNA  
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<223> Clone ID: LIB3059-021-Q1-K1-A7

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 taattgctga tgtggctctc tgcccttttg aagctgtgaa ggtacgtgtg cagacacaac 180  
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ttgggctcta caaggaatt gttcctctct ggggtcgtca gattccttat accatgatga 300  
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<212> DNA  
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<223> unsure at all n locations  
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agaacttgag atctgagagc ctctatcgct gaatctgtct tccattatgg ttgataaact 300  
gggttcttcc attttccata ttttgctcaa ctagctgatg aataagcana cgatgtatca 360  
taacttangt acgatgtttt tgtaccttgg caccatct 398

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<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A9

<400> 11842

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gcgccctact acgccgggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300  
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atgatgcagc ttgagcg 377



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 <211> 187  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 11843  
  
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 gatcattcca ctcaacaact aatccaaata aatctttcat cttaccatga catttatagg 180  
 tttttcc 187

<210> 11844  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B11  
  
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 gtcgagcccg tgccgcagag ctgccgcgcc ccggggggagc tcaaggteat cttctgccag 240  
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 ttttatttta gaa 433

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 <212> DNA  
 <213> Zea mays  
  
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tggctggagg acaaccctac cagcacagtt ccgtctaact gtacagatac gcgggtag 240  
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aaggtcagtt gcag 314

<210> 11846  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B2

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gaactctact gcttattaac agcaacaaca actactacca ttcagccact tagctcgagt 180  
gagccctact acctacttga cacaaacccc ttgtgaatgc agactactag cacactgtga 240  
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taaaaccagt acttt 315

<210> 11847  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B3

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gcgccttcag taggtcctcg catgcccatg tttccacctg gtgtccctgg agttggtcag 180  
cagctgttct atggtcagcc accaccagcc ttcacaaacc ctcaggctgg atttgctttc 240  
cagcaacctc tgatgcctgg tatgaggcct ggtggtccaa tgccgaactt tatgatgcct 300  
atggttcagc aaggacagca accacagcgt cctgctggta gacgtgctgg tggaatgcag 360

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399

<210> 11848

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B4

<400> 11848

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acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 180

ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg 240

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<210> 11849

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B5

<400> 11849

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaata atgaaaaaaaa aaacaacgaa 120

aacaaaaaaaa aatatat 137

<210> 11850

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B6

<400> 11850

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agtgcacccc aatctactca aggattgtct cactgtacgc tgagcagaat gaactccaat 180  
 ttgctgtccc aggagggctt attggtgtgg gaacaaccat ggaccaact ctaacgcgtg 240  
 ctgacaggct ggttggccag gttcttgggtg aagtaggttc actacctgat gtttacgtag 300  
 agcttgagat caatttcttc ctactccgga ggctgttggg tgtgaggacg aaaggtacag 360  
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<210> 11851

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-B8

<400> 11851

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 gccctgcgc ggggctgcag ggcttgtacg gcgctggcgc cggcctgacg acgatgatgg 180  
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 cggcggcgcc ctactacgcc ggggtgtggc agccgagcgc catgttccag ccgctccggc 300  
 aacagtgtcg ccagcagcag atgaggatga tggacgtgca gtccgtcgcg cagcagctgc 360  
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<210> 11852

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-B9

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 cacacggcga aggagatcgc cgcgaagatc gacgcggcga cgacgaaccg gggcggcggc 180  
 aaggccgggc aggcggaccg gctggggcag gacaagggcg ggcattgcga gctggcgctg 240

ccgctctgcc gcaccccgcc gcccgacatc aagtccatgc agatccacca cgaggcgccg 300  
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<210> 11853  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-021-Q1-K1-A3

<400> 11853

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 gaccacaaga tgaagcccat catggagctg cacgagagcc atggccagga cagcaacacc 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H1

<400> 11854

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 aatggtgtag tcattgccac tgagaagaag ctgccttcta ttctagtga tgaaacatct 360  
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<210> 11855  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H10

<400> 11855

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<210> 11856  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H11

<400> 11856

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 tgctccgagt gccattattc cacagttcct ccctccagtt acttcaatgg gcttcgaaca 180  
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 aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca tcgcaacgca 300  
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 gct 363

<210> 11857  
 <211> 419  
 <212> DNA  
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<223> Clone ID: LIB3059-020-Q1-K1-H12

<400> 11857

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acccttgggc caattctata agtatggggc aagtcaagat tgcaccagcc tgcattgcacc 360  
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<210> 11858

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H2

<400> 11858

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gCGgtggcaa tcttgacagc agcacaatac ctaccatcaa tgtgcggctt gtaccactca 360  
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<210> 11859

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-H4

<400> 11859

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 <213> Zea mays  
  
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<210> 11861  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-H7  
  
 <400> 11861

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caacaacaac agctgcaaca gtttatgcc a gtgctcagtc aactagccat ggtgaaccct 180  
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<210> 11862  
<211> 375  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-H8  
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tgccctgccc ctgcgcgggg ctgcagggt tgtacggcgc tggcgccggc ctgacgacga 180  
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<210> 11863  
<211> 395  
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<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-H9  
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<210> 11864

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A1

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 gccaaagctgg ttatcttccc aaggcctgct cgcagggcca aggctggtga ctctactctg 180  
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<210> 11865

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A11

<400> 11865

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 gcaaccctct tacaactaca acaattgttg ccctttgtcc aacttgcttt gacagaccca 360  
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<210> 11866

<211> 401

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A12

<400> 11866

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<210> 11867  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-A2

<400> 11867

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caggagttag gaaatcgaag ctggatgtaa caatagattt tactgtttgc aaatgcaacc   180
tttgtttttt tttttctggg tgttcttcgt gttggagggt tttttagctc tgccctagtt   240
gtgagttgtg acatcttttag ttttaggctg aagtctgaac gatatggggg gagagatcat   300
gcgtgcccac ggttgtcttg ggattggaca tgcataagtt gagatgttct ctttttctgt   360
aagagttttc ttttcgatgt g                                     381

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<210> 11868  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G9

<400> 11868

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
gcttcagtat gtgaaaaccc agctcttcaa ccctataggc tccaacaagc aatcgagca 240  
agcaacatac ctttatcacc cttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300  
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
gtagctctgg caaacctttc tccctactct cagcaacaac aatttcttcc attc 414

<210> 11869  
<211> 394  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 11869

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agccagctag ctactgcta ctctcagcaa caacaacttc ttccatttaa ccaattggcc 180  
gcactgaacc ccgctgctta tttgcagcag caaatactac taccatttaa ccagctagct 240  
gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcccttcta ccagcagttt 300  
gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 360  
ttgacagacc cagcggctc ctaccaacaa caca 394

<210> 11870  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-F6  
<400> 11870

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaatgata 180  
gcttcagtat gtgaaaaccc agctcttcag ccctataggc tccaacaagc aatcgagca 240  
agcaacatac ctttatcacc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
tcattggtac aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac 360  
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
caactgtcta cactgaacc 439

<210> 11871

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F7

<400> 11871

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ctcacaagct cctatagctt cccttcttcc ccggtacctc tcaccagtgt tgtcttcagt 180  
atgtgaaaac ccaattcttc aaccctacag gatccaacat gcaattgcat caggcatctt 240  
acctttatca cccttggttc tacaacaatc atcagcccta ttacagcagt tacctttggt 300  
gcatttattg gcacaaaaca tcagggcaca acaactcgtg ctagcaaacc ttgctgccta 360  
ctctcagcaa caacagttac ctttggtgca tttgttggca cacaacatca aggcacaaca 420  
actacaacaa c 431

<210> 11872

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F9

<400> 11872

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aggccttggc acttcacaac ctgggaaggg aggctgaaag ccaagaagca ctgaagaatg 180

gcactgcctt ggaagctgca atgaatagta gagctagaac tgtatagccc tgaatttgtg 240  
 ataccctgtc ctgcttgtac ctagatcgcc tccctccaat gtttcgtcac cagtaggggc 300  
 tgttttttgtt attccctaac ttgtatcggg atttccccta gtttcacaag tcgaaaaaac 360  
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<210> 11873  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G10

<400> 11873

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 tgacttcaac acggcaactt tcagtacat tcttaagaag ctcggttaaga ttttgagaca 180  
 tgttttactg attttcagtc gttcatgcta gatgcactaa caaactttat cttgtagaca 240  
 atcactacaa aatggatctg accccaaaga aagaagccat caaagttatg atccaagacg 300  
 agttaaccaa gctatcagag gaggatgaag aaggagaggg agacgaagac accgggaaga 360  
 aacagcagca gcctcaggcg caggagatcg aggcattgagg atccgcggaa ccccgtagct 420  
 gtagt 425

<210> 11874  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G11

<400> 11874

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 gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
 aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccg cgccttcggct 240  
 tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300

agctggacgg ccgcaacatc accgtcaacg aggcc

336

<210> 11875

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-G12

<400> 11875

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tcttgctaca atacttcaag ggatgtggtg aagttcttgt gccacggaag gtttcccagc 120

aggaacatat tcttcttctt tgggtcaaact ggaggaaact gaacagaatt aaactgccac 180

atgagcgtgt gcacttgggt gctaaagcct cgatgcttac acacagtgc atgttggtga 240

ttgcaaaaac aagatgccac tatgaaaacg cgaactactt tntgctggat aaacaaggca 300

tcgtttacgt tttcatccac aaggaggcaa caccagccga tgttntaagg tccttcgtac 360

acgggctcgt gctagctagc tcgacacaga acagcaaacc tcagcactt 409

<210> 11876

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G2

<400> 11876

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gtgatccac tagtcacaat gctgcccctc gccaaagccc cctcccgcac cgccaagccc 120

gccgcggctc cgaagccgaa gctgcccgc gccaaagcca aggcggccac cgctggtgcc 180

tcccacccgc cttacttcga gatgatcaag gaggtatca cggcgctcaa ggagaggacc 240

ggctccagct cgcaagcgt cgccaagtat gtgggggaca agcacggcgc gtctctgccg 300

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gtg 363

<210> 11877

<211> 441

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-G3  
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acgtcgaggc gcggctcgga gaccgcacgc tgtatgccga cgagatactc aaggacggct 180
tctgcctgaa catgatcgag acgccgtctt gccctctcaa ggctcgtcact aacctgcnag 240
aggccgtctg ggatgccgac atcgtcgtga atggggtgcc gtccaccgag acgagggagg 300
tgtttgatga gatcagcgag tattggaagg agaggatcag tgtcccgggtg ataatttccc 360
tcgccaaggg aattgaggcc tcgttgatc caatacctcg tatcattaca cctactcaaa 420
tgattagctc tgcaactgga g 441

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<210> 11878  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-G5  
 <400> 11878

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ctgtaagaaa ttcacctact gaatccttgg aaagtgaaga tgaagatggg ttcctgtat 180
cattttctga atcaaagaag agttctgaga ttattttcaa caagaatgtg ggaaaagaca 240
aggagactag caacaaagac ctgaaaagaa aaagtggacc catagcgacc gtggtgaatc 300
ttcaaggggg gtaaaagctg aaaatgaatg ggcattcaag gaaaaggaaa a 351

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<210> 11879  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-G7



<400> 11879

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ggcgctggcg ccggcctgac gacgatgatg ggcgcggcg ggctgtacct ctacgcggag 180  
tacctgaggg agccgcagtg cagcccgtg ggcggggcgc cctactacgc cgggtgtggg 240  
cagccgagcg ccatgttcca gccgtccgg caacagtgt gccagcagca gatgaggatg 300  
atggacgtgc agtccgtcgc gcagcagctg cagatgatga tgcagctnga gcgtgccgct 360  
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<210> 11880

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-G8

<400> 11880

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tggtaagacc accatcctct acaagctcaa gctcggagaa atcgtgacca ccatccctac 180  
aatcgggttt aatgtggaga ctgttgaata caagaacatt agcttactg tctgggatgt 240  
tggaggtcag gacaagatca ggccattgtg gaggcactat ttccagaaca cccaaggcct 300  
tatctttgtt gttgatagca atgacagaga tcgtgttgtt gaagcaaagg atgagctcca 360  
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agatctacca aatgc 435

<210> 11881

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F4

<400> 11881

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gcttcgggctt cgtcaccttc tccacggagg aggcgatgcg gaacgccatc gagggcatga 240  
acggcaagga gctggacggc cgcaacatca ccgtcaacga ggcccagtcc cgcggcggcc 300  
gtggaggcgg cggcgggtggg tacggtggtg gccgtggagg cggcggctac ggcggtggcg 360  
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acggtggtgg tggcggcg 438

<210> 11882  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-E12  
<400> 11882

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cttcaacggc ctctgcggcg acaacgcgtt ctccacgcc gtgtattgcc agctcgtggc 180  
gctggagctc gcgaaccttg ggtactcgac gcagttcacc cctctgccgg tcaaagattg 240  
cctggcggag gaggtctgga agggcgtgaa gcggaagtac tggcaactgg acacctacta 300  
cctccctgct tgccagtcag aatcagaatc taccatcagt tagtgatgag ttatttctag 360  
tctgcgtctg aagttggttg tagctaagta catttttggt cagacatgct gtgttatgaa 420  
t 421

<210> 11883  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-E2  
<400> 11883

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aggggaaggcc aagccgctga aggcgccccaa ggccgacaag aaggagtacg acgagacgga 180  
 tcttgcatat ctgcagaaga agaaagatga ggaaaaagca ctgaaggagc ttaaggccaa 240  
 ggcacagaag ggcgcgattg ggggctcggg tctgaagaaa agtggaaaga aatgagactg 300  
 gtcacccgtc tccaatacct agaggatgat aaggcagctg tctatctgtg ttgcgcttca 360  
 ctaagtgtga ttgtaacagt ggtacctctt gtgttctgtg ttccgcgatg ttgcagttgg 420  
 gtgcttgatc gaaagatggt tcaacc 446

<210> 11884

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E3

<400> 11884

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 ttccagcaac ggcttggcac tgatggtact ccaaagtact caaatagctg gcatgtagtg 180  
 aaggaaaactg caaagtatga aggcgtccgt ggattttaca ggggcatcac gtccaatcta 240  
 ctgaaaaacc ttccagctgc gtccctcacg ttcgtggtgt atgaaaatgt tatcaaacta 300  
 ttcaaagcaa ccaaggagaa gacgtagcta ctcatataat ccaggagtac tatgcatggt 360  
 ctgacatttc tgagttcaaa cgatgcctat aatttccatt ccacgtcaag cccatatttt 420  
 atccatttaa catc 434

<210> 11885

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E4

<400> 11885

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 accaagccac tgaagacctg caagcattgg agtaccacga gatggcagca gaggcgtact 180

atctgaaggc aatggcatac aaccatctcg gcaagcttga tgagagggag gaagccgcgg 240  
ctcgtttcaa ggatcacgtc actgcccttg agaccccgca taacgaagag gactcgctta 300  
agtactgaga cccaagacca tttgttattg gcaagcacgc cccactgcca gagactaaag 360  
agggcgtagt ggccttcttg acccgcatgg tggcactggc aggtacaaat gctacactga 420  
ggcgaatggc gtttgctgcc atg 443

<210> 11886  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E5

<400> 11886

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aggaactccg ttccagagtt tcgtctactg ccaagggcct cgtgtttgtg ggtgggttga 180  
ataaacacgc aatttgagat gacgctgttt tgaccatgaa tttagattga acgcacaacg 240  
gcaaaaagga ttttatgtga agttgtcgat ggggtgaaaa agatgtgacc atctctgacg 300  
gtctgacctg cttcattcat gaggaattga ggataaagca catttgaac 349

<210> 11887  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E6

<400> 11887

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aatgctcact tgctccaagt tccattatta cacagttcct cccaccagtt acttcaatgg 180  
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcaattgag gcgagcgtct 240  
tacaacaacc aatttccag ttgcaacaac aatccttggc acatctaaca atacaaacca 300  
tcgcaacgca acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc 360

ctgccgccta cttgcaacag cagttgcttg catcaaacc acttgctctg gcaaactag 420  
 ttgcaaacca gccac 435

<210> 11888  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E9

<400> 11888

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 agcaacaact gatttaatat aaccactata gaagagggtg atgcacctac ataccatgca 180  
 acaacaattg ctgcaacaga ttgtaccagc tctgactcag ctagctgtgg caaacctgc 240  
 tgcctacttg caacagctgc ttccattcaa ccaactgact gtgtcgaact ctgctgcgta 300  
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 cttcctacag cagcaacaat tgctaccata ca 392

<210> 11889  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F1

<400> 11889

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 gcctacaact ggtccaggcc gggcatgaag accagcgtca agatcatcca cgccaggctg 180  
 catgctcagg ctctcacgct ggctgccttg gctgggtccg cgctgggtgga gtactacgac 240  
 caccagcaag ggtcaggatc gaaagttcac caatatgcaa agcagttcct ttcattctgat 300  
 agcaatagcg gccaaacaaa ggagtagcta gccagtgtcc ttgcgaaatg caagcagcgg 360  
 agtgggctgt atttctctgat caaatatctt gcctatggca cattctgtgg aaactttgac 420  
 gg 422

<210> 11890  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F11

<400> 11890

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acctagccgt ggtgaacctt gtcacctact tgcaacagca gctgcttgca tccaaccac 180  
ttgctctggc gaacgtagct gcataccagc aacaacaaca gctgcaacag tttatgccag 240  
tgctcagtca actagccatg gtgaacctg cagtctacct acaactactt tcacttagcc 300  
cgctcgcgtt gggcaatgca cctacgtacc tacaacaaca gttgctgcaa caaattgtac 360  
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<210> 11891  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F12

<400> 11891

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tcctatagct tcccttcttc ccccgtagct ctcaccagcg gtgtcttcgg tatgtgaaaa 180  
cccaattctt caacctata ggatccaaca ggcaatcgca gctggcatct tacctttatc 240  
acccttggtc ctccaacaat catcagccct attacagcag ttacctttgg tgcatttatt 300  
ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgcta 360  
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tttgc 425

<210> 11892  
<211> 431

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-F3  
  
 <400> 11892  
  
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 aacatcttgc tgggcctctc gatcgcgag gagaccagcg cctacatcgt ctctacggc 120  
 gtgttcgctg ccgtctgggt gctcgccgtc gccgccttcg agatgaagcg ctgctacgcc 180  
 gacgacgact gatgagctag cgacacgtaa gagtcacagt tcgggtccaa cagctgacgg 240  
 cgaagtttgg tgctggtaaa ctgagcggtc cacggccagc tgggacgtga cagacacacg 300  
 agcgccgagc gcgcgcgcgc gcacacacac accattcttg ttgttccgta gctcgagct 360  
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 tttttttttt t 431

<210> 11893  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-E11  
  
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gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 360  
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<210> 11895

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D1

<400> 11895

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gtatgcaaga gttttgccac ggcttatctt tttttttttt gtacggggga acaaatgaaa 420  
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<210> 11896

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-D10

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 cggcgagcgt cttacaacaa ccaattgcc aattacaaca acaatccttg gcacatctaa 300  
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 gaatatggta tggataagct catccaaatt gcggcaaccc aacttagcga ccagcttcct 180  
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 caggcctcaa cttctgacga acacgaggtc gaggcctctg cctcgccaga tgctgaatca 300  
 tgggaggtt tctgccagtc caagctctcc gcattaagtg cccaagccat tcttcgtgtg 360  
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 <212> DNA  
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 <212> DNA  
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<223> unsure at all n locations  
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 gatgtatacc tccgttttag ctctggtgtc gtgcagggtgc agcagccagc aggtattata 180  
 taaaaatgct tgtaggtgta tggagccagt agaagaggtt gtccgagaat aagatcgctc 240  
 atggcacagt tgagatgagc ttggcttgca ggagagtggg gtgtttgtgc atagtgtttt 300  
 gacatatgag atgcgttggt cttttctttt tttccctttt tcttttttgt atatagtgag 360  
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 tgcttgcat cggtgtgttt ctgtc 445

<210> 11900  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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atgcttagtg caaacctgca ttttgtctct atttgaccat ctgtacacgc atgatcgct 240  
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 ggaaggcaag tggaggttgg agttgatgct gncgngtgcg ggcgcgattt gctgtncctt 360  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aatgctcact tgctccgagt gccattattc cacagttcct ccctccagtt acttcaatgg 180  
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 tagaacaacc aattgcccac ttacaacaac aatccttggc acatctaacc atacaaacca 300  
 tcgcaacgca gcagcaacaa gcaactgagcc acctagcgt ggtgaaccct atcgnctact 360  
 tgcaacaaca gctgcttgca ttcaaccacac ttgctttggc aaacgtagct tgatacaaca 420  
 acaaccacag ttgcaacagt ttct 444

<210> 11902  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-D5  
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 cattattcca cagttcctcc ctccagttac ttcaatgggc ttggaacacc cagctgtgca 180  
 agcctacagg ctacaacaag cgcttgccgc gagcgtctta caacaacaa ttgccaatt 240  
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atttctacca gcactaagcc aactagctgt ggtgaaccct gtcgcctact tgcaacagca 360  
 gttgcttgca tccaacccac ttgctctggc aaacatagtt gcataccaac aacaacaaca 420  
 attgcaacag tttct 435

<210> 11903  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-D7  
 <400> 11903

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 ctaccggacg ttctacacca accatacgga gctgggtggg ctgtatcagg agacctacat 180  
 gctcaccttc gacggccaga tgtccatggc ccatccgtca ttgccgtcaa gtcgggatct 240  
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<210> 11904  
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 <212> DNA  
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 <223> Clone ID: LIB3059-020-Q1-K1-D8  
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 ccgccaccgt ctcgatttg tcgtcattca ccgccatctc tgctcagtt tgetgtctc 240  
 caccaccgtc ttccgcggca ctatgtacaa tacaatgttg tctccaagac ccagtacatg 300  
 gtcttctcca agatccagta caagatcgtc tctccaaga tttgaacccc aacgctagtg 360  
 agagtggagg caacacatga aaccaacatg gagaagaaaa atgaaatggc attccacatg 420  
 aagcttgtga aaaaga 436

<210> 11905  
 <211> 169  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-D9  
  
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<210> 11906  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-E1  
  
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 aaaaggacct gggtttggag acatattcac ttgatgcaca taaaaacttc ataatcaat 300  
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<210> 11907  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-B11  
  
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gattgaccat ggttggttga ttgccaaccc ccaccagttc aaggtcccta gctggttctt 180  
 caacaggaaa aagtactaca aggatggtag gttctctcag gttgtttcca acgcccttga 240  
 caagaagctc agcttaggga tgactctagg ctgaagaaga ccaggaacca ctatggtttg 300  
 tcactactgg ggtctacttg tccgtggcca gcacaccaag actaccaaaa ggcatggaaa 360  
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<210> 11908  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B3

<400> 11908

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 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300  
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<210> 11909  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B4

<400> 11909

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 gggatcctat atgtgatggc agtcatcaat acaaagcatc tggacacatg atgtacagca 240  
 acgcacgcta tctgggagct accactgagc tgttacaaa catttctgcc tacctattag 300  
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369

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<211> 376  
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<213> Zea mays  
  
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aaaaaagtat tgttcc 376

<210> 11911  
<211> 431  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-B7  
  
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aacgcaacag caacaacaat tcctaccagc actgagccac ctagccatgg tgaaccctgc 360  
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<210> 11912  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-B8

<400> 11912

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<210> 11913  
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 <212> DNA  
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<223> Clone ID: LIB3059-020-Q1-K1-B9

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 <211> 413  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-020-Q1-K1-C1

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atggcgaaga tcaagccgaa ggcttgcgtc gcgcaaagca aggtgaagaa ggtccccggc 360  
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<210> 11915

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-C10

<400> 11915

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aaaaaaataa agattaaaaat ttaattacat aaaaaaataa taaaaaaaaa ataattatta 180  
ataaaaaacat aaaaaaaaaa aaacatgaca gtagttaaaa aattttacaac ttgaaaaaac 240  
tataatattt ccaaattaaa tcgtatttgc ccatattccc atttggcaat ttgccttaat 300  
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<210> 11916

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-C12

<400> 11916

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 aaccaactag cagcattgaa ctctgctgct tatttacagc tgcaacaatt gctgccattc 240  
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 ctctttttaga ttgcttatga gttatagttc aataatgaag ttttttggat gatgtttgtg 360  
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<210> 11917  
 <211> 442  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-C2  
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 aaggttgaca agggcaccat tgaggttggt ggcaactgata aggagaccac caccgaaggc 240  
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 <213> Zea mays  
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cagcaagtgg gtgaatatgc aaggtttcaa caaatcctag tgctgttggg ggctgcagct 180  
gcaagagttc tttcatgggtg aaatagcttc aattaccttg aagagatcaa taattggaaa 240  
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<210> 11919  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-C4

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gctgtggcgg acaaaagatg ggccgcctta tcaacgttgc ggcatctac attgtcggca 360  
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ggatcttggt cgagtagc 439

<210> 11920  
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<213> Zea mays  
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catcatgcac catctactat tttccttgat gagattgatg ctatcattag tcaacgtggt 180

gaagctcgta gtgaacatga agctagccgg cgattgaaaa ctgagctatt aatacagatg 240  
 gatgggttga ctaagacaga tgagcttggt tttgttctag cagcaacaaa ttaccatgg 300  
 gagttggatg cagcaatgct gcgtcggctg gagaagcgta ttcttggtcc attgccagag 360  
 ccggatgcta gacatgctat gtttgaagag ctctgccat atacacctgg cacaatggag 420  
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 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 11921

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 cccttgtaga ctacggcaaa gactacggcc gcctcgtcgt catcgtcgat gtggtcgacc 180  
 agaacagggc acttgtagac gccctgata tggtcagggt ccagattaac ttcaaacggc 240  
 tctcacttac cgacatcaag attgacatca aacgtgtccc caagaagtca accttgatca 300  
 aggctatgga ggaagctgat gtgaagacta agtgggagaa cagctcatgg ggcaagaagc 360  
 tgattgtcca gaagaggagg gctgcactca gtgactntga caggttcaag gtcattgctg 420  
 ca 422

<210> 11922  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H7

<400> 11922

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 cgtacattat ccgtctggac taaggataac attacagaac cgaacaggat gactagggca 120  
 aacgcgcccc atggctgaga atctccagtt gcgatgtgaa tggccgtagc caatcacact 180  
 acatgccgac cgacgcacac ggcacacca atgaccgtac tcatcgacca accagcaggc 240

gactggaacg tcatagaccg cgacatcatc actgctcacg gcaccgccat agacgtcaac 300  
 tacactgtca ccaacttacc cagcgatagc accttcactg acgacgcggg actgggcctc 360

<210> 11923  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gagaacaaca ctgggtggcta acacatcaaa catgcctgtc gctgctcgtg aagcttccat 120  
 ttacactgga attacaattg ctgagtatct ccgtgatatg ggctacaacg tcagtatgat 180  
 ggctgactcc acctnccggt gggctgaggc attgcgtgag atctcagggc gtttggctga 240  
 aatgcctgct gatagtgggt acccagctta actggctgac gtttggcatc cttttatgaa 300  
 cgtgctggta aggtaaaatg tctgggaagt ccagacagga atggcagtgt cacaattggt 360  
 ggagctgtct ctctctctgg tgggtatctt tcag 394

<210> 11924  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-A1  
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 tgtaaaaaaa aaggaccaa gtgggtgggtc cttgaagatc atcagttcat catcctatag 120  
 taagctgaat gatgaaagaa aacctctgta cattacatgg aaggcagacc ggctattggc 180  
 tccattgctc caatgtctgc tttggctgcc ttgcctcgat ggaccggatg cagtgaggaa 240  
 tccagccgaa cgacagtttg aaggatagga aggggagctg gaagcagtca cgcaggcagc 300  
 ctgcgcgtga ttcatatgga acaagctgga gtcagtttct gctgtgccac tcaactgttta 360  
 ccttaagatt attacctggt gttgtgtcct ttgctcgta gggctgataa cgtaatgact 420

cattagaaaa tcatg

435

<210> 11925

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A10

<400> 11925

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aggaaggagg tggggagggg aagaaggcga tagccgggga ggatgggtgct tgtgcttgctg 180  
ctgggggatc tgcacatccc gcaccgggag cccgacctcc ccgccaatt caagtccatg 240  
ctcgtgcccg gcaagatcca acacatcatc tgcactggca atctctgcat caaggaagtc 300  
catgactacc tgaaaagcct ttgccctgat ctccatatta ccagaggtga acatgatgag 360  
gatgctcgat acccagagac taagacactt acaattggtc agtttaagct tgggct 416

<210> 11926

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A11

<400> 11926

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ttcccccgta cctctcacca acgggtgtctt cggatatgta aaaccaatt cttcaacct 120  
acaggatcca acaggcaatc gcagctggca tcttaccttt atcacccttg ttccctcaac 180  
aatcatcagc cctattacag cagttacctt tgggtgcatat attggcaca aacatcaggg 240  
cacaacaact acaacaactt gtgctagcaa accttgctgc ctactctcag caacagcagt 300  
ttcttccatt caaccaacta gctgcattga actctgcttc ttatttgcaa catcaacaac 360  
taccattcag ccagctatct gctgcctacc ccagcaatt tcttccattc aaccaact 418

<210> 11927

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A12

<400> 11927

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cgagatgttg agtaccgctg ctctcgtcggc ggcctcgcct gggccacgga cgaccactcc 120

ctccacaacg ccttcagcac ctacggcgag gtcctcgagt ccaagatcat cctcgatcgg 180

gagacgcaga ggtcccgcgg ctctcggcttc gtcaccttct ccacggagga ggcgatgcgg 240

aacgccatcg agggcatgaa cggcaaggag ctggacggcc gcaacatcac cgtcaacgag 300

gcccagtcgc gcggcgcccg tggaggcggc ggcggtgggt acggtgggtg ccgtggaggc 360

ggcggtctacg gcggtggcgg gcgccgtgat ggcggtggcg gctacggcgg tggcggc 417

<210> 11928

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A2

<400> 11928

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attatatgtt gcgtctccat gcgcagcgcg ctctctgcgt gcgtgctgat cccgacacga 120

ttctctcact gttcacacgc tcctatatcg ctcttgactt ttcccatata caccatacca 180

gctgtgttca aggtgtgcga acacacattt gttacactgt aggcgatata acgcggtcgc 240

agagctctgc tcacatctat aacactcgtg tta 273

<210> 11929

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A4

<400> 11929

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gggtatccgg gccaacctac cgttccctgc aatgcaatag ctttccctata gtgtaacgta 120

acctaaattc actgccctgg ccttaacacc acaacgactg gaaaaacccat gccctgcccc 180  
aactcaactt aattgcatta catcccattt tcctcacctg agctatcgcc aaagaggcca 240  
ggcccgttcg gattgcccac cacttcagca gcccaaacgg aaat 284

<210> 11930

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A5

<400> 11930

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tgctacggcg accatthttcc cgcaatgctc gcaagctcct atagcttccc ttcttcccc 180  
gtacctctca ccagcgggtgt cttcggtatg tgaaaaccca attcttcaac cctacaggat 240  
ccaacaggca atcacagctg gcattctacc tttatcacc ttgttctctc aacaatcatc 300  
agccctatta catcagttac ctttggtgca tttattggca caaaacatca gggcacaaca 360  
actacaacaa cttgtgctag caaaccttgc tgcctactct cagcaacagc agtttcttcc 420  
attcaaccaa ct 432

<210> 11931

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A7

<400> 11931

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gttggacttg agtgctgttt tcgtatttgc actctgcggg gtactgccgt taaggcaaat 120  
cagttgtttg caagtttgag tgctattggg ggccgttgat tacatacctg tcttttgcac 180  
ct 182

<210> 11932

<211> 397

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A9

<400> 11932

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aacctattga ggatcgtacg acgattccaa gataacctaa tgcacataca gagggatact 120

ctcaaaaggc aaacattgat gcaacgggtga aaaaattttc agataacttc acaattatgt 180

tgatccatta tgatggccgg acaactgagt gggatgaatt tgagcgggtca ataagggtctg 240

cccatgtgag tgtcacaaaa cagaccaaatt ggtggatatgc caaacgattc ctacatcctg 300

acattgggtgc ccgctacgac tacatattga tgtgagatga agatcttggc gtagaacatt 360

ctaattgcaga ggcgtacatt tagctcgtta ggaagca 397

<210> 11933

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H6

<400> 11933

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tggtcatcgt tctcgtcgtg tgcctggctc tgtcagctgc cagcgcctct gcaatgcaga 120

tgccctgccc ctgcgcgggg ctgcagggt tgtacggcgc tggcgccggc ctgacgacga 180

tgatgggctc cggcggggtg taccctacg cggagtacct gaggcagccg cagtgcagcc 240

cgctggcggc ggcgcctac tacgccgggt gtgggcagcc gagcgccatg ttccagccgc 300

tccggcaaca gtgctgccag cagcagatga ggatgatgga cgtgcagtcc gtcgcgcagc 360

agctgcagat gatgatgcag cttgagcgtg ccgctgccgc cagcagcagc ctgtacgagc 420

cagctctgat gcagcagcag cagc 444

<210> 11934

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G2

<400> 11934

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gncatggcag ccaagatgct tgcattgttc gctctcctag ctctttgtgc aagcgccact 120

agtgcgaccc atattccagg gcacttgcca ccagtcatgc cattgggtac catgaaccca 180

tgcattgcagt actgcatgat gcaacagggg cttgccagct tgatggcgtg tccgtccctg 240

atgctgcagc aactgttggc cttaccgctt cagacgatgc cagtgatgat gccacagatg 300

atgacgccta acatgatgtc accattgatg atgccgagca tgatgtcacc aatgggtcttg 360

ccgagcatga tgtcgcaaat gatgatgcca caatgtcact gcgacgccgt ctgcagatt 420

atgctgcaac agcagttacc attcatg 447

<210> 11935

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G3

<400> 11935

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tggatggcat tgaaggccaa acaacagtaa ggaactcacc atttgtgcaa caagcagatg 120

tcactatggt cgatggatcat gacaccaagg agcagacact cccttccacc tctggcatga 180

ccgattcttc gagcggcagc gcctcaagcg agcctacttt caaggggaac ccaggacgtg 240

ccctcaaaga ccgaagcagc cctgcactga ccgtgaaagc tacctacaat ggcgacaccg 300

tccggttcaa gtttgtgcca gcaaggggct ggtaccactt gctggaagag atagcaaaga 360

ggttcaagct gacggctgga gcattccagc tcanatacaa ggacgatgag gacgagtggg 420

tgatcctggc gaacgatg 438

<210> 11936

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G5

<400> 11936

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gacaaccgtg gtcacgaacg caccctacac ggccgtccac tttgccacct acgaggcggc 120

caagcggatg ctccgggaca tggccgcca ggaggagtcc cttgccgtac acgccactgc 180

tggggccgca gcaggggcac ttgcgcgtgc ggtcaccact cccctcgatg ttgtgaagac 240

gcagctacag tgccaggggtg tgtgcggctg tgaacgcttc tcaagcagct caataggaga 300

cgtgtttaga acaatcataa agcgagatgg gtattccggg ctcatgaggg gatggaagcc 360

aagaatgctg ttccatgcac ctgcagctgc aatatgttgg tctacatacg aggcctaaa 420

agtcattttt c 431

<210> 11937

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 11937

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cctcaccctg tgtgaccaat gaagaagtcc agaaggctgc tgctgctctc aagggtctctg 120

accaccgccc tgccaccaac gttagtgcct gattggatgc ccagcagaag aagcttaacc 180

tccccatcct tcccaccact acaatcgggt cggtcccaca aaccgttgag ctccaggagg 240

tccgccgtga gtacaaggca aaaaagatct ctgaggagga atacgtcact gccatcaagg 300

aggaaatcaa caaggctggt aagctccaag aagagcttga cattgatgtg cttgtgcatg 360

gcgagcctga gagaaacgat atggttgagt acttcggtga gcagctctcc ggttntgcgt 420

tcactgcaa tggtgggtg cagtct 446

<210> 11938

<211> 387

<212> DNA

<213> Zea mays

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<400> 11938

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acaacgcctt cagcacctac ggcgaggtcc tcgagtcctaa gatcatcctc gatcgggaga 180  
cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggacgcg atgcggaacg 240  
ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc 300  
agtcccgcg cgcccggtga ggccgcccga gtgggtaccg tgggtggcacg tggaggcggc 360  
ggctacggcc gtggcgggcg ccgtgat 387

<210> 11939  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gatcttgatg gtacagaaag agagagtggg tggcttctgt gatgcaattt tggcagtttc 180  
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gagattgatg ttcgctcggg gcctaattca agcatatgca tatacaccaa aagtcatgat 300  
tgagcaatgc tgtggtgctt cagtgtggtc ttcccagttt cattcgggtga gtggtggatg 360  
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ggtagaaact atgtgggtag ctgatg 446

<210> 11940  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-019-Q1-K1-G9  
<400> 11940

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caagatattt tccctcctta tgctccttgc tctttctgca tgtgttgcta acgcgacaat 120  
 tttccctcaa tgctcacaag ctccatagac ttcccttctt ccccatatcc ttccatcaat 180  
 gatagcttca gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc 240  
 agcaagcaac atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt 300  
 gcagtcattg gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat 360  
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 c 421

<210> 11941  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-H10  
 <400> 11941

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 tgcagaagct ggacctcagc tacaaccgcc tgtgcggccc gctccccaag ggccacggcg 180  
 tcatcaagca cgggtgcaag ccgtacgcgc acaaccagtg cagcaaaggg accccgctcg 240  
 cgggatgcca ggacctggag tgagtgcgc ggtggccatg gttttctata ctctgctctg 300  
 ctctccctcg ccggcggttct tttcgtgtcc caatcttgaa ggacgcaggt acggtgcctg 360  
 gtttagctat agacaaaaaa aggtacggcc gcgtgggtggc ggtgctaata tgcttagcca 420  
 cgccacgcg c 431

<210> 11942  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11942

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cctgcgacga cctcctcacc aagtgcgccg ccacctgcaa gaactgcgtc cccgtctcca 180  
 cggacaaggg cgccaccaag tacagatgcc gcgacttcct ccccgaaaac tgcggctgca 240  
 agatccacta gactcatcca cagcggcaca gccgatggat ccttccatgc tctacgtcc 300  
 gtccgccttg ctacaagcag gcagccacca ataagctagc tcttggtggn tgtttgcatg 360  
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<210> 11943

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H12

<400> 11943

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 cgttccgagg tttcgctctt cggagcgcac caacgccacc cggagcgcact cgccaccggc 180  
 gcggagaagg agggcggagg ctaggcgatg gcggacgaga atgaggctgg gaagaaagag 240  
 gaagaggaat ttagcacagg ccctctgtca gtactaatga tgagtgttaa gaacaacacc 300  
 caggttctca tcaattgccg caacaacaag aagctgcttg gccgggttcg tgcttttgat 360  
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<210> 11944

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H3

<400> 11944

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 ttatcacctt tgttctcca acaatcatca gccctattac agcagttacc tttggtgcat 180  
 ttattggcac aaaacatcag ggcacaacaa ctcggtgctag caaaccttgc tgcctactct 240  
 cagcaacaac agttaccttt ggtgcatttg ttggcacaaa acatcaaggc acaacaacta 300

caacaactcg tgctagcaaa ccttgctgcc tactctcagc aacaacagtt tctgccattc 360  
aaccaactag ctgcattgaa ctctgctgct tatttgcaac aacaactagt actaccattc 420

<210> 11945  
<211> 307  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-019-Q1-K1-H4  
<400> 11945

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ccaacaacac atcattgggtg gtgcccgtt ttagagtgtc tattagttgt aattcaataa 120  
taaagttttt tggatgatgt atgtggccaa ccagaaataa gaagttacat ttccagattt 180  
taatgtgata ttggtctcca aggggtgttcg ataattactt ttcctaagat tgggagtaac 240  
aagcttttaa tcaaaagata aataatataa aaaacaaaca agataaaatt gatgcatatg 300  
aaggcac 307

<210> 11946  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-019-Q1-K1-H5  
<400> 11946

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gctcaccgtt gggaaaaagg tgacatctgg aatgagtcca gctttcaatc tttatgggtg 180  
tgccttgatt gtgcttgag agtggaacc accagtttat gataactctc atgggataaa 240  
attggttact gccaccacac gtcgaaattc tccaaatagt atagattcca agatacatca 300  
caacaatctt atcaacaata ttctggcaaa gatagaaggt aatcttgccc aggctgagga 360  
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ggtca 425

<210> 11947  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-G12  
  
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 agccctctcg ctgtggttaa tgcacctaca tacctgcaac aacagttgct gcaacagatt 120  
 gtaccagctc tgactcagct agctgtggca aacctgctg cctacttgca acagctgctt 180  
 ccattcaacc aactgactgt gtcgaactct gctgcgtacc tacaacagcg acaacagtta 240  
 cttaatccac tagcgggtggc taaccattg gtcgttgctt tcctacagca gcaacaattg 300  
 ctgccatata accagttctc tttgatgaac cctgccttgt tgtggcagca acccatcggt 360  
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 cat 423

<210> 11948  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-E9  
  
 <400> 11948  
  
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 cttctcaagt caaaatatac tcaattacat gaacttggat ctgaaatcct cccaagagct 180  
 gtactagatc atagtgtgca agcatgcatt tttaacgggt attgggagga tgttgaaca 240  
 atcaaatacat tctttgatgc aaacttggcc ctactgagc agccttccta gtttgatttt 300  
 tacgatccaa tgacaccttt cttactgca cccgatgct tgcctccgac gcaattggac 360  
 aagtgaaga tgaaatatgc atgtatctta catggctgct tactgagaga atgcaacatt 420  
 gag 423

<210> 11949



<211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-019-Q1-K1-F10

<400> 11949

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 ctgccagcgc cagcgcgggg acctcctgcg tgccgggggtg ggccatcccg cacaacccgc 180  
 tcccagagctg ccgctggtac gtgaccagcc ggacctgcgg catcggggccg cgctctccgt 240  
 ggccggagct gaagaggaga tgctgccggg agctggcgga catcccgcg tactgcccgt 300  
 gcacggcgct gagcatcctc atggacggcg cgatcccgcc gggcccgac gcgcagctgg 360  
 agggccgnct agaggacctg ccgggctgcc cgcgggaggt gcagagggga ttc 413

<210> 11950  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-F11

<400> 11950

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 caccgcaagc gcgtcaccat catgcccag gacatccagc tcgcccgcg tatccgtggg 180  
 gagagggcct aggcgtcgtc ccggtggagg tggaagtagt agtggccgtt tctgtcatca 240  
 ctgtctggct agaaggtgta gagatgtgcc gggttctgta gtttgggtta tcggtcaaat 300  
 catgatgtag ttgggtctac cctgctgtaa tttaactatg actatgcaat ggcaatgaag 360  
 ttctcggtta tcagttcccg 380

<210> 11951  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-F12

<400> 11951

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ctgaccgctc tggaccacaa cagggctctt ggccagattt ctgagagact taatgtocaa 180  
gttagtgatg tgaagaatgt tatcatctgg ggtaaccact cgtcctctca gtaccctgat 240  
gttaaccatg ccacagtga gacttccact ggggagaagc ctgttcgtga gcttgtctct 300  
gatgacgagt ggcttaatgg tgaattcatt acaactgtcc aacagcgtgg tgctgcaatc 360  
attaaagcga gaaagttctc cagtgtctct tcggctgcta gctctgcttg tgaccacatt 420  
cgtgattgg 429

<210> 11952

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F2

<400> 11952

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gccccaggcc tgaggcctcc atcttcgggc ccttactggt ctacgagcac caccagagga 180  
ttatggattg gctggggcag aagcgcgcgg agatgctgat gcagggtgctg ctgggtggcgt 240  
ctgctgtggc ggcgcttctg gtgggctacg tgcgcgcgga cttccagctc atgctgctcg 300  
tctacgccgg cggcgtcgtg ctcacagcgc tcgtcaccgt ccccaactgg cccttcttca 360  
accgtaacct gctcaagtg 379

<210> 11953

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F3

<400> 11953

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aacgtgtggt tgacatacta aagcaagcca aacttcccat tgcacctcct gagaccatga 120  
 ccgtagagaa gtttaaaaac atcatggctg ttgacaagaa ggttgctgat ggtctgttga 180  
 gactcctcct tctgaaagga ccactagggg gctgtgtatt tacgggggat tatgagggga 240  
 atgcactcga tgaaacccta catgcattct gcgacaactg agaacatccc agttttggac 300  
 atcacttctg tatgctagta ctaggctatg tatcaatcag agaaaatatt gtggtgtaca 360  
 ttatcttcac tgcctcattg gtatatTTTT gtcagaaata atggtatatt ggtttaagtg 420  
 ctggtttgag tttgtag 437

<210> 11954  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-F4  
 <400> 11954

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 cctccttgcg cttcttgcg ctttttgcgag cgcaacaaat gcgtgcatta tttcacaatg 120  
 ctcaactagct gctagtcca ttattccaca gttcatacca ccagttactt caatggcctt 180  
 cgaacaccca gctgtgcaag cctataggct acaacaagcg attgcagcga gcgtcttaca 240  
 acaaccaatt gcccaattgc gacaacaatc cttggcacat ttaacaatgc aaaccatcgg 300  
 aacgcaacag cgacaacagt tactaccagc actgatccac ctageccatgg tgaaccctgt 360  
 cgctacttg caacagcatc tgcttgcatc caaccactt gctctagc 408

<210> 11955  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-F6  
 <400> 11955

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 accaacgata tgctgcttac tgatgctgat acctctctat cgaagtgctg cttatgcaca 120  
 cactctggaa cggtgcttac taattcgcac tgccttaca catgactcat cactattacc 180

tcaagacagt taccaccgag aaggacgaga tgattacat tgctggaaac aacggccaga 240  
cgccgtcgta aattgatgtt caactccctt accagtacaa catccagctt gccaagaaca 300  
tgacttgtat caagatcctt cggaatctca aagcacattg gttgaccac ggacatccac 360  
taggacctct actacctcat taataatgtc attacgatta 400

<210> 11956

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F7

<400> 11956

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caatccagat gcgcaaacat cgaatcgtct cgctcgtggc tgccctactc gtgctgcttg 120  
ccctcgccgc cgtttcctcc acgcgcagcg cacaaaagga gtccgtggct gacaacgccg 180  
ggatgttggc aggcggcatc aaggacgtgc cggcgaacga gaacgacctc cagctccagg 240  
agctcgcgcg ctctcgccgc aatgagcaca accaaaaggc caatgctctt ctgggggttcg 300  
agaagcttgt gaaggccaag acacaagttg ttgctggcac gatgtactat ctactattg 360  
aagtgaagga tggcgtagtc aagaagcttt atgaagctaa ggtctgggag aagccatggg 420  
agaacttcaa g 431

<210> 11957

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F8

<400> 11957

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aattatacat tgccgatgat cactagcaga tcccagcatg aatgcactat acagtttgga 120  
tcattactat atcggcgtgt ccataaagac agatcctagt aatcactgat actcccagga 180  
gctctactca tacataccgc gaaactatcc agtgtagtcg catctctgaa gtcgacggcc 240  
acaatcaaac tggatttgaa ctcagatcta tccat 275

<210> 11958  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F9

<400> 11958

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ctgacggcgt cggccatgtt ccgcgggaag atgagcacca aggaggtgga cgagcagatg 180  
ctgaacgtgc agaacaagaa ctctctctac ttcgtggagt ggatcccgaa caacgtgaag 240  
tcgagcgtgt gcgacatccc cccacgggc ctggcgatgg cgtccacgtt cgtcggcaac 300  
tccacctga tccaggagat gttccggcgc gtcagcgagc agttcacggc catgttccgg 360  
cgcaaggcct tctgcactg gtacaccggg gagggcatgg acgagatgga gttc 414

<210> 11959  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-019-Q1-K1-G1

<400> 11959

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cttcagtcga ccctaattgc acttatatgt ggatgtcttt gactctagtg aagacttcat 180  
atacctaattg cacacacttg ctgacttcga agcagctaca aagcttctga cacttgcaaa 240  
ggttacattc tggtatgatg cgctacatgg tgggtgctgga gcttatgcc aacacatctt 300  
tgatgaaaaa cttgatgctg actaaaagct aactgaccaa ttgtgatcca gaacatgact 360  
ttggaagtgg tcatgcggat cctaacctta cctatgtca agactcgggt gaactgatac 420  
gtcttgaaa gtcattctca aatgtt 446

<210> 11960

<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G10

<400> 11960

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gtgcgcttcg cccgcgggat cccacctcg gggcccagcg ccaccgcat cttcctcacc 120  
accttcggtg ctttcgcata tggcatgtac caggctcggcc aggggaacaa ggtccgcccg 180  
gcgctcaaag aagagaaaat tgctgctcgc agtgctatac tgccgatgct ccaagcagaa 240  
gaggatgaaa gatttgtcaa agagtggaag aagtgtcttg aggaggaggc gaggatcatg 300  
aaagacgttc caggggtggaa ggtcggcgag agcgtgtaca actctgggaa atggatgccc 360  
ccggctactg gtgagctccg ccctgagggtt tggttaagggc ctgttgaggc cactgaatgc 420  
catcatgtca cggg 434

<210> 11961  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-G11

<400> 11961

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cctgcgccga cgcgatgcgg gccaaagtga agaagaagag gatgccgatg ctcaagagga 120  
agcgccggaa aatgaggctg agatctaagt aggcgcattt tgtgaccgag gatggcgagc 180  
ttctcctgca ccatggctgt gacgcgttgg gatgattggc tacctttgta gacgtgcttt 240  
gctgtagacg taggcgatgt aaaccgtgct ttttgatcaa ttctagtatg ttctgagact 300  
gggtttatat tgtaatctga ggataatcat atgatgctat aaggttatcg atattactgt 360  
c 361

<210> 11962  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E8

<400> 11962

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tgggccccgt ggcgacgctg ctcatcggtt ccgcggcggg cgccatcgcc agctcggcca 120  
cgttcccgtt agaggtggcc cgcaagcaga tgcaggtggg cgctgtgggc ggtaggcacg 180  
tgtaccagaa cgtcctccac gctatctact gcatcctcaa gaaggagggc gccggcggcc 240  
tgtaccgagg tctcggacct agctgcatca agctcatgcc cgccgtcggc atcgacttca 300  
tgtgtctacga ggcgtgcaag aagatcctcg tcgacaagga cgatgaggag gaggaggacg 360  
aagccggcgg cggagaggat gacaagaaaa aggttgaatg at 402

<210> 11963

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D3

<400> 11963

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attgacgccg ttcatgaagt ctgagcctat tcctgacgtc aacaatgagc ctgttaaggt 120  
ggttggtgat gacaacgtcc actacttcgt cttcaaactt ggcaaaaatg tccttattga 180  
attctatgcc ccctggtgcg gacactgcaa gaagctggcg cccatcttgg acgaggcagc 240  
caccactctt cagagcgacg aggaagtcgt gattgctaaa atggacgcga ctgccaatga 300  
cgttcccagt gagtttgacg tccaaggcta ctcgaccttg tacttctgta ccccgagcgg 360  
gaaggtgaca tcctacgaca gcggcaggac ggcgacgac atgcgcgact tcatcaagaa 420  
gagcaaggag accgcatgcc 440

<210> 11964

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D4

<400> 11964

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gataccggga tttcccttgg gtccattaat tgccccaaaa cataagggga caacaactac 120  
aacaacttgt gctagcaaac cttgctgect actctcagca acagcagttt cttccattca 180  
accaactagc tgcattgaac tctgcttctt atttgcaaca acaacaacta ccatttcagc 240  
cagctatctg ctgcctaccc tcagcaattt cttccattca accaactgac agcattgaac 300  
tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc tgggtgtgagc 360  
cctgctacct tattgacaca accacagttg ttgccgttct accagcacgc tgcgcctaac 420  
gctggcacc tcttacaact gcaacaat 448

<210> 11965  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D5

<400> 11965

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aacagctgca acagtttctg ccagcgtca gtcaactagc catgggtgaac cctgccgcct 180  
acctacaaca gcaacaactg ctttcatcta gcccgtcgc tgtggccaat gcacctacat 240  
acctgcaaca acaattgttg caacagattg taccagctct gactcagcta gttgtggcaa 300  
accctgctgc ctacttgcaa cagctgcttc cattcaacca actgactatg tcgaactctg 360  
ctgctgtacct acaacagcga caacagttac ttaatccact agcagtggtt aaccattgg 420  
tc 422

<210> 11966  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D6

<400> 11966

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tcgattcccc tcgggagcga attttcaggc ttggttaaaa aaatcccctc gctgtgcccc 120  
atccgctctc aggttaacgat gtcctgtgcg ccacctccg gttgggcccgt tgcagagtgg 180  
acagttgacg ccggcccgtt agtgatgggg ggccagggtt cggggatttt ctcgccggg 240  
accattgttt cggctctctt ttaatataat accgggaggg cggctcttcc ctccccggcc 300  
gagtttttag tactataaag taaaaattaa agaaaaacaa catacacacg aatgacatgg 360  
acgaac 366

<210> 11967  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D8

<400> 11967

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atgactatga tggcgattgc atgcaagaag acggtgaaat tgaggagat tctagctgct 180  
atcgtgttct atcaagcaaa acattagcat atgttggtga agcacttatt ggtgtctatt 240  
atgtagctgg aggtaaaatt gctacaaacc atctgatgaa atggatcgtt attaatgcag 300  
agctggatcc tcaagagatc ccatcttcga agccatataa catacctgag atcataatta 360  
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tacttggtga agcta 435

<210> 11968  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D9

<400> 11968

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agccatggtg atgtcgttcc tgctgcagag ctccctcgtc ggggtcctgc aggcagccac 180

catggaccgc cgcgtctgcg caacaaggtt ccagataccc gcgggctcga tctcgggtctt 240  
cgagatcctg accttcacgg cgtgggtcaag ctgctacgac gcctgcatcg tgccagtcct 300  
ccggaggatg acggagcggc agcgcgtgct gacgctgaag cagcgcacatg gagtcggcgt 360  
gtccctggcc gtcgcctcca tggcgggtggc atcggcgggtg gagacccatc ggaggcagca 420  
cgccg 425

<210> 11969  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E11

<400> 11969

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gcgctcagtc aactagccat ggtgaaccct gccgtctacc tacaacagca acaactgctt 180  
tcactagacc ctctcgttgt gggtaatgca cctacatacc tgcaacaaca attgctgcaa 240  
cagattgtac cagctctgac tcagctagct gtggcaaacc ctgctgccta cttgcaacag 300  
ctgcttccat tcaaccaact gactgtgtcg aactctgctg cgtacctaca acagcgacaa 360  
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caattgctac cataca 436

<210> 11970  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E12

<400> 11970

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acgccaaacg cgaactcccg tgccgtgacc tcccgatctc aggcgatggc cgcgcggcgc 120  
ctcggatccc ccgcctctag gtggctgcgg ccgtccgcgc tgctcctcct ggtcgcttct 180  
gtctcctctt cggccccgtc gccggccccg gcgctgcggt tcgacctcga gtccggccac 240

accaagtgca tctccgacga gatcaagggt aacgccatgg ccgtcggcaa gtaccacatc 300  
 gtcagccccg accccaactt ccccgatgcc cagctccccg aatcgacccg catctccctc 360  
 aggggtgacgt cgccgtacgg gaacagcatg cactacgcgg agaacgtgca gtcg 414

<210> 11971  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E2

<400> 11971

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 ctggtttgag atgcatcgta agcaaccagg ataagtggta cctagatcac ttggatgcta 180  
 catgggaagg attttacacg aatgaaccac tgacaaatat ctacaacccg gagcagcaga 240  
 aattgggtact tgggtggtgag gtatgcatgt ggggcgaaca cattgatgca tcagacattc 300  
 agcagacaat ttggccacgt gctgcagcag ctgcagagcg gctatggaca ccaattgaga 360  
 agctggcgaa ggacacaaga tcggtcactg caagattggc acgcttcaag tgcttgctga 420  
 atc 423

<210> 11972  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E3

<400> 11972

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 atgctgcata agatcgcagg caaagtgtcc agccagctga agaaggagga gggcgctgag 120  
 gtggtcgcgg agcaggcgtg ctacctgccg tgcaccgccg acgggctgcc ggtcatcggg 180  
 gagataccag gcgtgaaagg gtgctatgtg gccacgggcc acagctgctg gggatatcctc 240  
 aatgggtccg ccaccggcgc agccctcgcc gagctcatcc tggacggcaa gtccaagatc 300  
 gttgatctcg agcctttcag cccggcaagg tttctcaaga gaaggagcag gcgtggagtc 360

tgaccgtgtg aatgttcaga ttcaagctcg ctactgaata aaacactctt ggttctcccc 420  
 tttgcatgac tgatgagtg 439

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E5

<400> 11973

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 cgacgcccta cggctcgtca cagtgccagg cgctgcagca gcagtgctgt caccagatca 180  
 tgcaggcgga gccgctgcac cgttaccagg cgacatacgg tgtggctctg cagtgccttc 240  
 tgcagcagca gccgcagggc gagctcgagg cgctgatggc ggcccaggta gcgcagcatc 300  
 tgactgcgat gtgcggtctg cagctgcagc agccagatcc ctgcccttgc aacgcagctg 360  
 ccggcggtgt ctactactga agaaactatg tactgtagta ataatgtaat ggaacccgtg 420

<210> 11974  
 <211> 194  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E6

<400> 11974

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 aattagttga accgctaata gcacaatctg atcttaatat aaacgcacac tctcatatgc 180  
 tcaactacat acag 194

<210> 11975  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E7

<400> 11975

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gacgcctaag atgccgtcgg cggaggcaag ggcacgagg cgtggcctcc aaagctctga 120

tcgtcagttg atccgcgaat cgggtctgtct gaactcagca tctactcaca ctctcacatg 180

ctcagctagt acagaccgcc acatacacc ctgtgtctga aactcggcgg ttgtctttta 240

gcttcccaat gcatgtgtag tctgatctct ctatcatgaa aacgcgcata tcatttagaa 300

tgaactgcag ttggaat 317

<210> 11976

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D2

<400> 11976

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gctatgatgg tatcaggtat ggaggacagg tctcggcgga tgacttgaat gagctttatg 120

gagagtcccg ggctaatggt tttggtcatt aggtcaaaat gagaattttg atgggaacct 180

atgctctttc tgctgggtac tatgatgcat actacaaacg agcacaacag gtcaggacac 240

tggttaagca aagcttcaaa gatgctttgg aaagatacga cattttaatc tcaccagctg 300

cgccgtcagc agcctacaag ataggtgaaa agataaatga cccgttagcc atgtatgcag 360

gagatatcat ga 372

<210> 11977

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B6

<400> 11977

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ctccccacct cgagcttgcc accatggcta gaggattgaa gaagcatttg aagaggctca 120

atgcgcccac gcattggatg ctggacaagc ttggcggagc ttttgctccc aagccatctt 180

ctggacctca caagtctagg gagtgcoctgc cactgatecct catcatcagg aacaggctca 240  
 agtatgctct tacataccgt gaggtcattt ccatacctgat gcaacgccat gtactagttg 300  
 atggcaaggt caggacagac aagacctacc ctgctggggtt catggatgtc atttccatcc 360  
 ccaagaccaa tgagaactac aggctgctgt acgataccaa gggccgcttc cgccttcacc 420  
 caatcaggga tgaggatgct 440

<210> 11978  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B7

<400> 11978

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 atggaagtga cagcattgag agtgctaata aggagattgc cctgtgggttc cccgagggcc 180  
 ctgctgattg gcagagcagc cagcaccctt ggatctacga gaagtaaaca tggaaagttt 240  
 cacatcaaac cttgagagcc agaggaagca tgtcaccatt tgtgcttttag caatgttttc 300  
 gaaaagatta tgatctgtat cttggaacct tatttcaatg gaccaaattt ctttc 355

<210> 11979  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B8

<400> 11979

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 cttccgttct accagcagtt tgtggctaac cccgcaacct ttttacaact gcaacagttg 180  
 ctgccctttg tccaacttgc tttgacaaac ccagcagcct tctaccaaca acacatcatt 240  
 ggcgggtgcc tcttttagat tgcttattag ttgtcattca ataatgaagt tttttggctg 300  
 atgtatgtgg cctcctagaa ataagaagtt atatttcc 338

<210> 11980  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B9

<400> 11980

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 aaagcaaagg tataccgcga agcacatttt gatcgcgact ggtagccgtg ctcaacgtgt 180  
 caacatacct ggaaaggatc tggctattac ttctgatgag gccttgagct tggaggagct 240  
 tccaaagcgc gctgtaatcc tgggtggcgg atatattgct gttgaatttg cttctatctg 300  
 gagggggatg ggtgctgaag tagatttggt ttatcgaaaa gatcttcctt taagagggtt 360  
 tgatgatgag atgagagcta ttgttgcaag caaccttgag ggaaggggaa tcaagttgca 420

<210> 11981  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C12

<400> 11981

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 gcgaggcatg gtggagaagg cgaggacat gccgcgcagg ctggagatcc cccagtggaa 180  
 ggccgacggc cttccgtcgc cgacgagccc gctggaccgc gcgtcgccgt cgcgccgggg 240  
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 ggccgagggc ccgcccagc ccgcccag ggtgtccatc ccgcccgcgc cggcgcggtc 360  
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<210> 11982  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C2

<400> 11982

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ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcacgggc cgcgcctccc 240  
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gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360  
ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg ga 412

<210> 11983

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-C3

<400> 11983

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agaagcttgt taagaggctt gccaagaagt accatgcttt cttggcatca gaggccatca 180  
tcaagcagat tccccgtctc cttggctcctg gtctcaacaa ggcaggcaag ttcccgaccc 240  
tggttactca ccaggaatcc ctcgagtcca aggtgaacga gactaaggca accgtcaagt 300  
tccagctcaa gaaggctcct tgcatgggtg tcgccgtcgg caacttggcg atggaggaga 360  
agcagatcca gcagaacatc cagatgagcg tcaacttnct tgtttcctt ctgaagaaga 420  
actggcagaa tgtgagatg 439

<210> 11984

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C4

<400> 11984



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cggatatccag gtcggaaacg cgtgctgaga gctgtactgc cttgagcatg gcattcaggc 180  
tgacggtcag atgcccgggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240  
cttcagttag actggtgctg ggaaacacgt gccccgagct gtttttgctg accttgaacc 300  
cactgtcatc gatgaggtga ggactggcac ctaccgccag ctcttcacc ctgagcagct 360  
catcagtggg aaagaagatg cagccaacaa ctttgcccgt ggtcactaca ccattggcaa 420  
ggaagatg 428

<210> 11985  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-019-Q1-K1-C5  
<400> 11985

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ccccgcgggt cgcgggatca aggagccaga gagcgggacg cagcgcgagcgt tccgccggag 180  
atcgagaccg tagctagggt ttgaggcgcc gggctgcgggt ggacgcgagatg tcgacgccgg 240  
cgaggaagcg gctgatgcgg gacttcaggc gcctgcagca ggaccgcgcc gccgggatca 300  
gcggcgcgcc gcacgacaac aacatcatgc tctggaacgc cgtcatattc gggccggatg 360  
atacgccgtg ggacgggtggc acgttcaagc ttaccttgca gtttacagaa gattacccaa 420  
acaagc 426

<210> 11986  
<211> 422  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-019-Q1-K1-C6  
<400> 11986

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tatttttccct gggttctgat acttgctcca tgatgtccaa tgggggagac ggctgggtga 120  
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 tgaagcatgc aggcgtcatt ggatggggag ccctgacgat ggagctgtca tccttcgtgg 240  
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 tgttctaadc caaacctgct gctgctgggt ctcttgccag cgtggcactc tgtgcatggg 360  
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<210> 11987  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 11987

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 tgcagatgcc ctgccccctgc gcggggctgc agggcttgta cggcgctggc gccggcctga 180  
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 gcagcccgtt ggcggcggcg ccctactacg ccgggtgtgg gcagccgagc gccatgttcc 300  
 agccgctccg gcaacagtgc tgccagcagc agatgaggat gatggacgtg cagtccgtcg 360  
 cgcagcagct gcagatgatg atgcagcttg agcgtgccgc tgccgncagc agcag 415

<210> 11988  
 <211> 259  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-019-Q1-K1-D10  
 <400> 11988

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cacgtatgaa gttactaaga atgaattcac cgtgggacta gcgatcagtt gcctgttata 180  
 caatcgagaa gtcgctgga aaactaccat aatgacgagc tgagctatca gaagacaatt 240  
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<210> 11989

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D11

<400> 11989

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 ttttccctca atgctcacia gctcctatag cttcccttct tccccatac cttccatcaa 180  
 tgatagcttc agtatgtgaa aaccagctc ttcagcccta taggctcaa caagcaatcg 240  
 cagcaagcaa cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg 300  
 tgcagtcatt ggtacaaacc atcagggcac agcagctgca gcaactcgtg ctacctgtga 360  
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 tcaa 424

<210> 11990

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A12

<400> 11990

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 tcgaaggcgg ccaagcaact atgctggata ttgattttgg cacttatcca tttgtgactt 180  
 cttctagccc ttcagctggc gggatatgca caggcctagg gattgctcca agggcaattg 240  
 gcgacctgat tggagtggtc aaagcttaca catctagagt cggctctggc cctttcccaa 300  
 ctgaactatt tggagaggaa ggtgatcgcc ttaggaaagc tggaatggaa tttggcacia 360

caacaggctcg cccaaggcgt tgcggctggc ttgacattgt tgcgcttaag caca 414

<210> 11991  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A2

<400> 11991

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gcctgggcca ccagcaacga gtcgctggag aatgccttcg cctcctacgg cgagatcctc 180  
gactccaagg tcatcaccga ccgggagacg gggagggtccc gcggcttcag cttcggtacc 240  
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ggccgtaaca tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cggcggtggc 360  
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ggcgcggtg 430

<210> 11992  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A3

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cccaaataag ttgtttaaaa tcttctactg ctgattgaac tttctgcttt gcacttttagc 240  
aacaatgttt aagataatta aggagatgct tcctcctgat gtacgagtgg caagagatgc 300  
acaggatctt cttgttgaat gctgtgtaga gttcatcaat ctcttttcgt ctgaatcgaa 360  
tgaagtgtgc agcagagaag agaaaaaac gattgctcct gagcatgtta tcaaggctct 420  
aagtgatctt g 431

<210> 11993  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A4

<400> 11993

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 gtatgtgaaa acccagctct tcagccctat aggctccaac aagcaatcgc agcaagcaac 240  
 atacctttat cacccttggt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
 gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caaccaagta 360  
 gctctggcaa acctttctcc ctactctcag caacaacaat ttcttccatt caaccaactg 420  
 tctacactg 429

<210> 11994  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A5

<400> 11994

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 caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180  
 tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc 240  
 aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300  
 ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatcaaccaa 360  
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<210> 11995

<211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-019-Q1-K1-A6  
  
 <400> 11995

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atcgaaattg gcatgcttga gaagcttggg aaatatgggtg aaagcagatc caggtctcat  180
cccaatcccc aaaggagggg tcctattaca agcagttgcc caagtctagt gctatcaagg  240
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<210> 11996  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-A7  
  
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aagcgtgtca gataccgtct ggatgggtcc aagattatca agattttatt ggacccaaag  180
gagaggaaca aactgaata caagctggag acctgcactg cggctctaccg caagctgtgt  240
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gatattctca ctctatttcg ttgattctga atgttatgtt gggctctccct atgtacttca  360
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<210> 11997  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A8

<400> 11997

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cacaatgctc acttgctaca agttccataa ttacacagta tctcccacca attacttcaa 180  
tggtgcttga acaccagat atgcacgcct ataggctcca acaagcaatc gccgctagcg 240  
tctaacaaca gccaatattc caggagcaac aacaatactt ggctcatata acaatacaat 300  
ccatctcatc gcacagcat ctacaatttc taccagcact gagccaccta gccatggtga 360  
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<210> 11998

<211> 101

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 11999

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B11

<400> 11999

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agtagctctg gcaaaccctt ctccctactc tccgcaacaa caatttcttc cattcaacca 180  
actgtctaca ctgaaccctg ctgcttattt gcagcaacaa ctattaccat ttagccagct 240  
agctactgcc tactctcaac aacaacaact tcttccattt aaccaattgg ccgcactgaa 300

ccccgctgct tatttgcagc agcaaatact actaccattt agccagctag ctacagcaag 360  
 ccgtgcttcc ttcttgacac aacaacagtt gctgccgttc taccagcagt ttg 413

<210> 12000  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B12

<400> 12000

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 ttgctggacc aagtgtgggc agtgagacta atgttggttg actaacgttg gatcgagagg 180  
 cttgtgaagt tcagtcacca ccttctggta cgtcagtaca tggaagcggg aaaaagagga 240  
 agaaaagtca agttgcaagt gttttggatg actatttggg gcacaagatg aaccaaacag 300  
 ataagactgt ggaggcgttc cttgagaaga agactcgtgg agaggagtct atggataggt 360  
 gtatccacat atttgaagct atggaggact tgacagatg 399

<210> 12001  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B2

<400> 12001

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 gttcggcaac ggcaatgcc aagtgacagt caccaaggag ccgaacaacc tctacaacat 180  
 ccactccttc aaacactcgg gtttggcgaa caagaagact gtgacgatcc agccagctgc 240  
 aaaggactcg gctgtggtcc tctctactac caagaccaag aagcagaacg cacctgcgaa 300  
 gctcagccac aagtctgtga tgcgcaagga gttccgcaag atggccaaag ctgtgaaaaa 360  
 cccagggttag tgacaactac tacagggctg atctgaccaa gccca 404

<210> 12002



<211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-B3  
  
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 cctcgcggcc gtccctggagt acctcgccgc tgaggctcctg gagctcgccg gcaacgctgc 180  
 caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga 240  
 cgaggagctc gggaagctgc tgaccggcgt gaccatcgcc cacggcggcg tgttgcccaa 300  
 catcaacccg gtccctgctgc ccaagaagac ggcggagaag gcgtccagcg gcgggagcaa 360  
 ggaggccaag tcgccaaga aggccgtcaa gtcccccaag aaggcatagg gtttgggagg 420  
 cggatcccga tgtggcatgt gt 442

<210> 12003  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-B4  
  
 <400> 12003  
  
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 cgggcgcgac ctcatgaagg gccgctacgc gcagcgcgtc ggcagcgggtg cccccgtcta 120  
 cctcgcggcc gtccctggagt acctcgccgc tgaggctcctg gagctcgccg gctacgctgc 180  
 caaggacaac aagaagacgc gcatcgctcc gcgccacgtg ctgctggcga tccgcaacga 240  
 cgaggagctc gggaagctgc tgaccggcgt gaccatcgcc cacggcggcg tgttgcccaa 300  
 catcaacccg gtccctgctgc ccaagaagac ggcggagaag gcgtccagcg gcgggagcaa 360  
 ggaggccaag tcgccaaga aggccgcca gttcccccaag aaggcatatg gtttggaggc 420  
 ggatccgatg ttgacatgtg t 441

<210> 12004  
 <211> 432  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A11

<400> 12004

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agtgaggaga aggttctaca agaactgggtg caagagcaag aagaaggctt tcacaaagta 120

tgctctcaaa tatgaaaatg atgctggcaa gaaggaaatt cagctgcagc ttgagaagat 180

gaagaaatat gcttctgtta tccgtgtcat tgctcatacc cagattagga agatgaaggg 240

tttgaagcag aagaaggctc acctgatgga gattcaggtc aatgggtgga ccattgctga 300

caaggtggac tatggctaca aattctttga gaaagaggtc cctgttgatg ctgtcttcca 360

gaaggatgag atgattgaca tcattgggtgt gaccaagggg aaaggttatg aggggtgtgg 420

cactcgttgg gg 432

<210> 12005

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-018-Q1-K1-G6

<400> 12005

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attttgcttc cttatgctcc ttggctcttc tgcaagtgtc gctaccgcga ccattttccc 120

gcaatgctca caagctccta tagcttcctt tcttccccca tacctctcat cagcgggtgc 180

ttcagtatgt gaaaacccaa ttcttcaacc ctacaggatc caacaggcaa tcgcagcagg 240

catcttacct ttatcacctt tgttcctcca acaaccgtca tccctattac agcagttacc 300

tttgggtgcat ttgttggcac aaaacatcat ggcacaacaa ctacaacaac ttgtgctagc 360

ataacctgct gcctactctc agcaacagca gtttct 396

<210> 12006

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G7

<400> 12006

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atctgttggt taattgcgta cgttcagttc attctgtttc ttgtattctt tcggttcctt 120  
tcctctggta tattcatgga tgatgaggtg tttctgttta atcctctgat tcacctgtaa 180  
ccatgtatca tgtaacgtgc gcgtttatgt cctactgatt tctgcagctg tatttatatt 240  
acttgatagc ttactatcga catatgatca tgctactatc attcatatga taacaattac 300  
gtgggggtgca tttgttggtc caaatcattt tttctcatta tcttctttct cttttgcttt 360  
ctaactcttt ctttctactt ttatcttctt tcttttattt ttctttctac ttatttttct 420  
tttttttatt tt 432

<210> 12007

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G8

<400> 12007

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aagaagcaaa tgacggaggc cccgagcaag atcgaatcca tgaggaagtg ggtcgtcgag 120  
cacaagctcc gagecgtagg ttgcctctgg ctaggtggga tcagcagttc gatcgctac 180  
aactggtcgc ggcccaatat gaagactagc gtcaagatca tccacgcaag gttgcatgcg 240  
caggctctaa ccttagctgc attagttggt tctgcatgcg tggagtacta cgaccagaag 300  
tatggttctt ctgggcaaaa ggtggacaag tacacaagcc aatatctggc ccattcgcat 360  
aaagattaat gttcccatgt tggtttattc tctttgac 398

<210> 12008

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G9

<400> 12008

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atctcgctcg tgggtcgatc tcaactgagcc ctcgacgctc ttctctccac ttcttgcgtt 120  
 ctccatcctc ettcttctgct gataggctac gccgcttgct agcctgcgcg cgcgcagacc 180  
 taaccctgtg tgcacctgt tctaaccct gccgtgtgtcc accgtcgact ggcttgcgtg 240  
 cgcctccaca tgcgtctaac actgctagc 269

<210> 12009  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H1

<400> 12009

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 gtatgacact gtacactgac agtgaatata ccaacatgtc taggtgattg actcatatac 180  
 ctttatatcc tatgagaagg accttattga gctttacagc cataactctg acgatatctc 240  
 atgaaaaccg acatgcgctg aatatt 266

<210> 12010  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H10

<400> 12010

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 ttactccgct ctagactacg acggtgagta caaccgcccg taccgcaact aggttgtgcc 180  
 ctacatagac atcatcatca acatgatcgc caagccgccc gcgaggtcgt ctaagacggt 240  
 ctccaacaga ggcggaggct caggggtggg cttgacatca tgcttgagcg atacgcactt 300  
 gcagaggctg agatctacgg ccagctcttc ggcttactca ac 342

<210> 12011  
 <211> 366

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-H11  
  
 <400> 12011  
  
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 cgagcggcgg gaactccgac gagcttgccg tggaggttct ctgcccgggtg ttccgcccgg 180  
 cggcgtttgg ctcatcgtcg tcacagccag cagcaaagga catcagctcc accgtcgtcg 240  
 tcaccaaggt cggagtgtgg ggtggagagg gagggtcggc gcaggacatc gtgacgacgg 300  
 atccgtcgag gcgtctgcag agcctgaccg ttcgtgctgt ctttgccgtg gacttcattg 360  
 agttta 366

<210> 12012  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12012  
  
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 cctccttatg ctcccttggtc tttctgcaag tgctgctacc gcgaccattt tcccgcaatg 120  
 ctcaaaagct cctatagctt cccttcttcc ccgtacctc tcaccagcgg tgtcttcggt 180  
 atgtgaaaac ccaattcttc aaccctatag gatccaacag gcaatcgcag ctggcatctt 240  
 acctttatca cccttggttc tccaacaatc atcagcccta ttacagcagt tacctttggt 300  
 gcattttattg gcacaaaaca tcagggcaca acaactacaa caacttgtgc tagcaaacct 360  
 tgctgcctac tctcagcaac agcagtttct tccattcaac caactntctg cattgaactc 420  
 tgct 424

<210> 12013  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H4

<400> 12013

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attgtaccat ctcaagttca tatactagat tcgaatcctt ccgctacagc acatgaagtc 120  
aacattgtcg gtagcataaa cgatgatgac gaaaagagtc aggatggaaa aagcagtgc 180  
gatcttgctt catacgaggt aaaagagatg gttgtcaagg ataactttga agaaaagcag 240  
cagaccgaag aggtcattgt agatccact ccacatgaag ccaacaactt tcccagtacc 300  
gataatcacg aggaaaatga gcagaacaaa gaaattgttg cagacaccac ttcacacaag 360  
ataagtgtcg tacaaagcat gggtagtact gaagaaaagg aacatattga agatttc 417

<210> 12014

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H5

<400> 12014

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cactgcaagc tctgtgaaac aagccattga acctcttaaa aaatgtgggg tcagtgatgg 120  
agagatatgc atgatagcaa acattgggcc tgagaccgtt gaagaggttt acgcactagt 180  
gccatctctc aaggctaata ggtcagctat cgaagggttc gtcaccgagg ttcttaccgc 240  
cctcgcaaac ataaaagctg ctaagtgaat ctccaatgga actagaccga caataaatcg 300  
gaagcagctg tcttggtgat cgaggagcgc ggaatctgca aactggccct tcagtgtttt 360  
ggatgtgctg cggaaacgtg ttatgatgtg tatat 395

<210> 12015

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H6

<400> 12015

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tcaattcatt ctcatgcaaa caagccatta aacctcttaa aaaatgtcgg cccatctata 120  
gaaacctatc catcataccc aaccttgcac cttataccgt ttaaattgttt acgcactaat 180  
tccatcactc accgctaata tttcacctat cgaatgttca atcac 225

<210> 12016  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-H7

<400> 12016

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gatacggcca tggactccac cggcaccgga gcagggggta aggggaagaa gggagcggcc 120  
gggcgcaagg tcggcggggc aaggaagaag tcggtgtcga ggtccgtgaa ggccgggctc 180  
cagttccccg tcggcgcgat cgggcgctac ttgaagaagg gccgctacgc gcagcgtgtc 240  
ggcaccggcg cccccgtcta cctcgccgct gtccctcgaat acctcgccgc tgaggttctg 300  
gagctcgtcg gtaatgtctg cagggacaac aagaagactc gcattattcc gcgccacgtg 360  
cttctggcga tccggaacga cgaggagctt gggaagctgt tgggcggcgt gacca 415

<210> 12017  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A1

<400> 12017

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attcttcaac cctacaggat ccaacaggca atcgcagcag gcattctacc tttatcacc 180  
ttgttcctcc aacaaccgtc agccctatta cagcagttac ctttgggtgca tttgttggca 240  
caaaacatca aggcaaca actacaaca cttgtgctag gaaaccttgc tgccactct 300  
cagcaacagc agtttcttcc attcaacaa ctggctgcat tgaactctgc tgcttatttg 360  
caacaacaac taccattcag tcagctagct gctgcctacc cccagcaatt tcttccattc 420

aaccaacttg cagcattgaa c

441

<210> 12018

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-A10

<400> 12018

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aatgggtcaa atgaacaggc agctaaatct gccaggggtg cagaggataa tgcaagagtt 120

tgagcggcag aacgagagga tggagatggt gagcgaagtg atgggagatg ccatagatga 180

tgctttggaa ggagatgagg aagaagaaga aactgaggag cttgtgaatc aagtacttga 240

tgaaattggc attgatatca accaagagct tggttgagcc ccgtcggccg ctgttgctca 300

acctgcttca gcggaaggg ttgccaggc tgaaagtgtg gggaaatgtg aactggaat 360

cgacgccgat ttgcaggcaa ggctggacaa tctgaggaga atgtangtgc tacaccagc 419

<210> 12019

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G5

<400> 12019

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aagaaacact cagatgtgtt ctgtgatatt tcagaattag atttctttct atatgctaca 120

gatttgata gtgaagaact tgaactgaag gagcagaaac ccattacgaa ggctcaatca 180

ggaggtgatt caagtggcaa cagatcgaat gattgctact tccccggcct tcatgatgat 240

ctgtctcaag actgccttgc ttgggcaagc atatcatact acccttcctt ttcttgtctg 300

aacaaaagat tcaatttggt aattaacagt ggatattttt actgactgct taatatatat 360

tgtattgttg agctctgttt tatttatctt tttattttta tctctattaa tctttttttt 420

tt 422



<210> 12020  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E7  
  
 <400> 12020  
  
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 atcaagggtc caaaggctct gtttggcggc acaggcaact atgccagtgc actgttcctc 180  
 acagcagcta aatctaatagc attggacaaa gttgaatctg agattaaagc tattgtagag 240  
 gttccaaga agagcccgtt gttttctcaa ttcataaagg acttgtcagt tccaaaagcg 300  
 accaggggtga aggctatagc cgaaatattt gctgacgctg ggttttcaga tgttacaaag 360  
 aatttcttgg ctggcctggc ggacaatggc aggctgaaat atattgaacg cattgcggaa 420  
 agatttggt 429

<210> 12021  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E8  
  
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 gaagttcttc gacacccgc cggtgcacgg ctagctggct aaccaagtgg tgcacccggc 180  
 acgacctgtg cttcaagctc ctcgacagtg tgagcctgta agagggcacc atgtgctaac 240  
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<210> 12022  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E9  
  
 <400> 12022

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaagagaa tgcattaaaa aagacataaa caatacttac aacaagaata aaataaaaag 180  
 gccatgaaac taagacaaaa cttaaaaaaa aaaaactctt atctaaaaaa atacataaca 240  
 tgaaaaacat aaacaataca taaataaa 268

<210> 12023  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F1

<400> 12023

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 gctgcattca gcaaagcatg agtatgcac aaaagcagat gtccatgaac cagagatatt 180  
 tgttgatcat gatgtatacc tgccacctgc cccaagccat catgatgctc atggccagtt 240  
 ttgctctgga ggtattgtat tggcttctcg agatggaaag attgtgtttg agagtacact 300  
 tgacgcatga ctagaaagtg ttttccgcaa gaaattgccg gagatccgga agcttctttt 360

<210> 12024  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F10

<400> 12024

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 attcaaccaa ctgactctgt cgaactctgc tgcgtacct caacagcgac aacagttact 180  
 taatccattg gtagtggcta acccattggg cgccgccttc ctacagcagc aacaattgct 240  
 gccatacaac cagttctctt tgatgaatcc tgtcttgctg aggcagcaac ccatcggttg 300  
 aggtgccatc ttttagatta catatgagat gtactcgata atggtgccct cataccgacg 360

tgtgttttccct agaaataatc aatatattga ttgagattt

399

<210> 12025

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F12

<400> 12025

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<210> 12026

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F2

<400> 12026

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gagatagcca gcattattgc tccgttgccc caaggatgat caccatcatg tggaatcagt 120

gctgcattca gcaaagcatg agtatgcac aaaagcagat gtccatgaac cagagatatt 180

tgttgatcat tatgtatacc tgccacctgc cccaagccat catgattctc atggccagtt 240

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<210> 12027

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-018-Q1-K1-F3

<400> 12027

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 ctttgagaaa taggtgcttt ggtggtagag ttgctgcaac tacacaatgt attcttacct 240  
 cagatgcttg tctgaaaact cttcattctc aaacacagtc ctctaggaaa aattatgctg 300  
 atgcanaccg tgtatctgct atcatttttg gcggaagcac tggatctcag ctctttcctc 360  
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<210> 12028  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F4

<400> 12028

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 gggaaaaggg cggcaagatc ggtgttgctg gtgtctgcaa cggcggaggt ggagcatcag 180  
 ctcttgttct cgaactcgca taagaagcat tggcttgaag cactggatat gtaattaatt 240  
 cagtcgcatg catctatgca tgatgaagta ttgaaaaaaa aagaccctac gatatccatg 300  
 ccgggtgcc a ctgtctgctt aattcaacag aa 332

<210> 12029  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F5

<400> 12029

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 ccaattggcc gcaactgaacc ccgctgctta tttgcagcag caaatactac taccatttag 180  
 ccagctagct gcagcaagcc gtgcttcctt cttgacacag caacagttgc tgcttttcta 240

ccagcagttt gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccttttgt 300  
ccaacttgct ttgacaaacc cagcagcctc ctaccaacaa cacatcattg gtggtgccct 360  
cttttagatt gcttattagt tgtaattcaa taataaagtt tttttggatg atgtatg 417

<210> 12030  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F8

<400> 12030

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caatgctcac aagctcctat agcttccctt cttccaccgt acctctcacc agcgggtgtct 180  
tccgtatgtg aaaacccaat tcttcaacc tataggatcc aacaggcaat cgcagctggc 240  
atcttacctt tatcaccctt gtctctacaa caatcatcag ccttattaca gcagttacct 300  
ttggtgcatt tattggcaca aaacatcatg gcacaacatc tacaaccaac tgtgctagca 360  
aaccttgctg cctactt 377

<210> 12031  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F9

<400> 12031

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agggtggacat atcctatggg gcctgatgta gtatccagtc atgatattct aggatagtag 180  
acttcatagg cagggaatat acagggcatc aaatgtaaca ttgtcacctt cttcaciaaat 240  
ctaagcatat tctattgacg ctagtgtgac tagattagca ggtcactgca atggaagtaa 300  
ttcagttatt gatcatggct acataattgc gaaagatgaa catattaaat gctcatgtat 360  
atagcacaat gatatattag gctatgcatg caa 393

<210> 12032  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-G1  
  
 <400> 12032  
  
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 aaatttatct caatataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattaaaa 120  
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaatc aaaaaaaaaa tacataaaaa 180  
 ataaaaaaaa aataaaaaaa ataaaaaaaa tgtttaattt ttaaataattt 230

<210> 12033  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-G10  
  
 <400> 12033  
  
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 cggcgcatcg actgtcctgg ctgatttcat ggggtgaatt ggttcaggaa ctggaatact 180  
 gctggcagtg acaatcatat accaataactt cgaaaccttc gagaaggaaa gggcaacgga 240  
 gcttggtatc ttcggttttt gattagtagc tgtggaacct tgaactgata gctgaatttt 300  
 cttgtaaggc cctgtacgga agcaaccggt ttttttagaa accagttctt atatttgagc 360  
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<210> 12034  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-G11  
  
 <400> 12034  
  
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gtgcctccgc tccggtcacc cgtcgctcca cgcaaccatg tgcaggagga agaccaggga 120  
 gcccaaggag gagaacgtca cccttgacc cactgtccgt gaaggagagt atgtctttgg 180  
 tgtcgctcac atctttgcat ccttcaatga caccttcatt catatcactg atttgtctgg 240  
 gaggtaaaact ctggttcgga tcaccggtgg catgaacgtg aaggctgacc gtgacgagtc 300  
 tgtaccttac gctgttatgc atgct 325

<210> 12035  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G12

<400> 12035

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 tcctttggtg agtgacaata gcattggcct gttcttgcca tatgcattca ccagtaggta 180  
 caaagagggt ctaagtaagt cccacagttc ttccatgatg acagtgccca agttcggtcc 240  
 acgccttaca aaagaagaaa ctcggtgtgt tgaatctgcc agagaatcga tgactgggtt 300  
 caagaaatgg ctagcatgtg ggatgagact gca 333

<210> 12036  
 <211> 133  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-G3

<400> 12036

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 cctttattaa ttctagatct aatactttca acaaaccctt acttccttta ttatctcatt 120  
 tattatataa aat 133

<210> 12037  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C9

<400> 12037

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gtccttgaga gcacctctc tggcgccacc aatgacaggc gccttgtaga ggctcagaac 180  
gttttggtcc aagggtcctg gcatgcactt aaactccagt cttaatgtac ttatgggtccg 240  
accatgggtg catgctcttc aaatggctct acacacgcta gagactcatg ataa 294

<210> 12038

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D1

<400> 12038

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gatcaccatc atgtggaatc agtactgcat tcagcaaagc acgagtatgc atcaaaagca 180  
gatgtccatg aaccagagat atttgttgac catgatgtgt acctaccacc tgccccaagc 240  
catcatgaat ctacggcca ggtttgcctt tgaagtattg gcttggttc ttcatattga 300  
aaggatgggt ttg 313

<210> 12039

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D10

<400> 12039

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gacgccggcc tcaccggccg caagatcatc atcgacacgt acggcggtg gggagccac 120  
ggcgggtggc ccttctccgg caaggacccc accaaggtgg accgcagcgg cgctacgtg 180  
gccaggcagg ccgacaagag catcgtggcc agcggcctcg cccgccgtg cctcgtgcag 240



gtgtcgtacg ccatcggcgt gccggagccc ctgttcgtgt tcgtcaactc gtacggcgct 300  
ggcacgatgc atcacaagga gatactaagg atcgtgaagg agaactcgta c 351

<210> 12040  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D12

<400> 12040

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aattcttcca aagctcagcc cccaaggcta tgctgttttt gaacttctcc accggacctt 120  
ttgattcttt caagtctgcc tactctgctg ccgcggagga attcaaggac aaggaaatca 180  
agttccttat tgggtgacatc gaagccagcc aggggtgcctt ccagtacttt ggcctgaaag 240  
aggaccagac accccttatt ctcattccagg atgggtgactc caagaagtcc ttgaagggtc 300  
acgttgaggc tgaccagatc gtcgcttggt tgaaggagta ctttgatggc taattgacgc 360  
cgttcaggaa gtctgagcct attcctgagg tcaacaatga gtatatt 406

<210> 12041  
<211> 189  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D2

<400> 12041

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cgggctaagc aaaccggccg caagtccacc ggaagcaagg ccccgcgcaa gcaacttggc 120  
accaaagccg ccaggaaatc cgcgcgcgacc accggccgcg ttaaaaaacc ccacaagtac 180  
aagccccgg 189

<210> 12042  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D3

<400> 12042

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ccggcgcccg tgctctgcc aacctccgtt cacctggcaa ctctgtgca tctcccaccg 120

ccggtccacc tgccgcccgc ggtccacctg ccaccgcccg tccatgtgcc ggccgcccgtt 180

catctgccgc cgccaccatg ccactaccct actcaaccgc cccggcctca gcctcatccc 240

cagccacacc catgcccgtg ccaacagccg catccaagcc cgtgccagct gcaggaacc 300

tgcggcgttg gcagcaccgc gatcctgggc cagtgcgtcg agttcctgaa gcatcagtcg 360

agccccga 367

<210> 12043

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D5

<400> 12043

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ttccctcctt atgtccttg ctctttctgc atgtgttgct aacgcgacaa ttttccctca 120

atgtcacaa gtcctatag cttcccttct tccccatac cttccatcaa tgatagcttc 180

agtatgtgaa aaccagctc ttcagcccta taggctccaa caagcaatcg cagcaagcaa 240

cataccttta tcacccttgt tgtttcaaca atcgccagcc ctatctttgg tgcagtcatt 300

ggtacaaacc atcatggcac agcatctgca gcaactcgtg ctacctgtga tcaaccaagt 360

agctctggca tacctttctc cctactctca gcaacaacaa tttctttcat tcaaccaact 420

gtctaca 427

<210> 12044

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D6

<400> 12044

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actccttatg ttcgcttgct cttatctgca tgtgattgct atactctaca atttttccct 120  
 caatgcttca caatcctcct atatctttcc cttcttctct ccataccttt ccatcaatta 180  
 tagctacatg tattacaaaa cccaactctt catccctata gtctccaaca tgcaatctta 240  
 tcatgcaaca tacctttatc ac 262

<210> 12045

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D7

<400> 12045

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 cattcagaat ttacagacat acaaagagaa gaagttcggt gatattagca aagaggattt 180  
 ggaattgggt gatgaagatg aggacaagga gaaagaaagc aagcaggagt atactcttct 240  
 atgcgactgg ataaagcagc agcttggcga taaagtcgcc aaggtccaga tctcgaagcg 300  
 actcagctct tctccatgtg ttcttgtttc tggtaaattt ggctggtcag ccaacatgga 360  
 aaggctcatg aatgcacaga cccttgggtga cacatcaagc cctgagttca tgataggtag 420  
 acgaatttt 429

<210> 12046

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-D8

<400> 12046

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 cacagaggca ctccctgctt ccgcgggttat ggcaggcgta atggtgagcg caggaggaag 120  
 tctgtccgtg gttgtattgt gagccaagac ctatctgtta tcaacttgggt aattgttaag 180  
 aagggtgaga acgatctgcc tggtttaact gacactgaga agccaaggat gaggggtccc 240  
 aaaagggcct ccaagatcag gaagctgttc aatcttgcaa aggatgacga cgtgcgcaag 300

tacgtgaaca cgtaccgcag gacattcact accaagaatg gcaagaaggt gagcaaggca 360  
cctaagatcc agcggcttgt gacccccttg accc 394

<210> 12047  
<211> 375  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-D9  
  
<400> 12047

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ccaagatatc ttccatccta atgctccttg ctctgtctac atgtgttgct aactcgacca 120  
tctttcctga atactcacia actactatat ctacaattct ttcagcatat attgcatcaa 180  
tgtccacttc aatatgataa tacatagcca tacaaccata cacgctgcat caagctttct 240  
caacttgtag attacctata tcatgcctaa cgtcataaca atcatcaacc gtatggagct 300  
tgccgtcatt aacataaacg ataacgacgc acaatctgga ggaactcgtg ctagcagtga 360  
tcatccatac agctg 375

<210> 12048  
<211> 391  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-E1  
  
<400> 12048

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aggggaaagc aaagctgatg gcggaggccc aggggaaagc aaagcaaagc gcggaggccc 120  
cgagcaagat cgaatccatg aggaagtggg tcgtcgagca caagctccga gccgtagggt 180  
gcctctggct aggtgggatc agcagttcga tcgcctacaa ctggtcgcgg cccaatatga 240  
agcctagcgt caagatcatc cacgcaaggt tgcattgctc agctctaacc ctggctgcat 300  
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tgacaaaata cacaagccaa tacctggccc a 391

<210> 12049

<211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E12  
  
 <400> 12049  
  
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 cgtggcattt caccaggac cacaaatttc ttgcacctgt acatgatcaa caaggacagc 180  
 cgtgagtacc tgctctggct gagaaagctg aaggatttct tcaagcagta ggtgtgaaga 240  
 cctgaagatc agctttatct ctcttttgtt cctgctaggg ccttctcggg tattccaatt 300  
 ccatgtggat tgaaatgtat taaaataaat ttgacttgt tatggattta aattaactta 360  
 ataccacca atccacatgg attattggtg aaacaa 396

<210> 12050  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E3  
  
 <400> 12050  
  
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 ccggatttaa tagtattatc gctggtttgg agaagaaaaa tagggtcatt agcatactgc 120  
 atcgcccttac tgtaacttac catgaatctt tacatgcatt ttctgtattt tactaggaac 180  
 atgctgtgcc tcttctaaaa attacaaa 208

<210> 12051  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-E4  
  
 <400> 12051  
  
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ggcacaccgc ctgccaaagaa ggaagcagtc gccgcgctac caaccgtgaa catcaaggaa 180  
gcgttgggct gttcagtcctg tcttgaggat ttcgagatgg gaggagaagc gaagcagatg 240  
ccctgtcagc ataagttcca ctctcactgc atactcccgt ggctggagct ccacagctct 300  
tgcccaatct gccggtttca gttgcctact gaggagacga agaacaaccc atgcgaatca 360  
gccagcaccg caggggcca 379

<210> 12052  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E5

<400> 12052

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ttgccgacac gagcggcgagg aactccgacg aacttgccgt ggaggttctc tgcccgtgt 180  
tccgcccggc ggcgtttggc tcatcgctgt cacagtcagc atcaaagggtg agagcgagcg 240  
agcgagcgag aaaccgtttc tccttcttac tcatcatatc atccgatgaa caaactggg 300  
atggtctgat ggatggatgg atggatggat gcatgacatc atct 344

<210> 12053  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B11

<400> 12053

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atccacaagt ccaagggtga gaaggccagg gagaagacgc tctccgatca gttcgaggcc 180  
aggcgcgcca agagcaaggc gagtcgcgag aggaagaatg ctaggagggga agagaggctg 240  
gcccagggcc caagagaaat accaccacca gtctcagcca cagctcccac taccggggca 300  
ccgaagaaag caaagaagtg aagtattgca acaaagctgc agctttctag tccagtactt 360

cgtaattttg gagcgccctg atcaattttg ct

392

<210> 12054

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B12

<400> 12054

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tccaccttct gtcacgagc ttcttatagc gaattacagc aatgggtgtgc ccagcaatgg 180  
cgcgctagac ttgacaact ttgtggaatg tgggatgatt gtgaagggtt taaccgagaa 240  
attcaaggag aaggatacgc gctacaccgg ctcggctact cttacatacg atggtttctt 300  
gtcaatggtg atccccctca tcgtccctta gctgtgctgt atgtagttcg gtaacttgat 360  
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<210> 12055

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B2

<400> 12055

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atagtataaa aaataagctt gggaaccaat caatatatat aaaataacta tatatgcatg 120  
acagttaaaa atatacatc ttcctttaaa aatattagcc aatactattt gcctatggtg 180  
aactaatcaa tccttaatga ctgcccccat gtacaaaacc agatcaagat tctagctctt 240  
ccggttgaaa ttactcctta tgtgctgtaa gtttaccctt gacattatat tttccaactt 300  
aaatgcagca tgatttattc ttttaata 328

<210> 12056

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B3

<400> 12056

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cgtgtatgtg gttacattgc aggaaagctt actgatttga tgctgggttaa tttgccaggc 120  
atccttggtg tgcttggaact ccatgagcag ctgcacaaat ttcgtttcag ctttcaaata 180  
tctccttttt ctgcaagttt tctgggttga aaagatgatg gtggcaataa tatggtactt 240  
gagctcacag gatgcacatt tcttgaacc tgtattccaa aactttatct acctgaaacc 300  
atagttactg ttttaagaata aaatatttta atttttatta ttttattatt tttttttttt 360  
tattttatatt attatttatt tttttttatt atattttttt atttatattt tttttt 416

<210> 12057

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B4

<400> 12057

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tgtgaaagag agatggagtt gaaggagaaa tttgaaaaga atgttcaaga ggtagctgag 120  
aagttccaaa acacaaactt gtatttgaag aacttagagg agaacattga tgatgagaaa 180  
ttgcgtgaac tctttgctga gtatggcaat attacttcct gcaagggttat gcgggattcg 240  
aatgggtgtca gcagaggttc tggatttggt gctttcaaata ctgctgaaga tgctaaccga 300  
gctcttacgg agatgaatgg caaatgggtt ggaagcaagc ccctttatgt agctcttgcg 360  
cagcgtaaag aagacagaaa ggcaaagcta caggcacatt tttcacaata g 411

<210> 12058

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-B8

<400> 12058

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ttctagggac gcttgccagc ctggcgtgtc tgtcgtgtaa ctctgtctgc acgcgcttat 120  
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 gcccttattg tctgtccacc acgcactaac tcaacttcag atacttcgtc tttctgctga 240  
 gtctactcct taccttcttt ttgcttacct tctactttat atttttttatc ttatatgagt 300  
 ggggttatTTT acatattttt ctaaattttct tctttttattt tctttttttt aatctttcta 360  
 ctctttcttt cttttttcta tcttttttat tttttttctc ttattttttt tctttt 416

<210> 12059  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C1

<400> 12059

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 gcgttgaact ctgctgctta ttgcaacaa caactaccat tcagtcagct agctgctgtg 120  
 agccctgttg ccttcttgac acaacaacag ttgttgccgt tctacctgca cgctgcgcct 180  
 aacgctggca cctctttaca actgcaacaa ttgctgccat tcaaccaact tgctttgaca 240  
 aaccaacaa cgttctacca acaaccatc attggcgggtg ccttctttta gattgcttat 300  
 gagttatagt tcaataatga agttttttgg atgatgtttg tggcttccca gaaataagaa 360  
 agtacatttc tagattctta tgtg 384

<210> 12060  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C10

<400> 12060

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 tctgatacat gtttgagcga atctagatat cagctgtacg atgatgaata ccgatgctat 120  
 cgtcacagga catccctgat ccacacgact accactcct ctacaactcc ttaagcacct 180  
 acgccaaggt accttattcc aaaatattac tcaacccta tacgcaaaaa tccaagctat 240

caacctgcgc ctctgctcgc agaccggacg taaccacgtt agggcattag cgcataaacg 300  
gcacgttcca ttgactcatc cagat 325

<210> 12061  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C12

<400> 12061

cggacgcgtg ggcattcattg gtgtgaccaa ggggaaaggt tacgagggtg tggtcagtcg 60  
ttgtggtgtc acccggttc cccgcaagac ccacaggggt ctccgcaaag ttgcttgat 120  
cggatcatgg catccggcta gggctccta tactgttgcc cgtgctggtc agaattggga 180  
ccaccaccgc actgagatga acaagaaggt gtacaagatc ggcaaggctg gacaagagac 240  
ccacgatgcc tccacagagt ttgacaggac tgagaaggac atcactccta tgggtggcgt 300  
ccccattat ggtatcgtga agggtgacta cctgatgatc aagggtgat gtgtt 355

<210> 12062  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C2

<400> 12062

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ggggattacc ctaatggttg tccaaatcct cttcattggt attcccttct caaagaaatc 120  
tgcggtcaaa tggattattc actaccccggt ctgcgtgttc tgggtggagct ctagggaaga 180  
tagcaciaaac attgaggtct ccttcaaagt ttataggccg cagtgatact ctaccacatg 240  
ttgatgcacg gtatccagcc atactattca aacagcagct tactgcatgt gtcgaaaaga 300  
tatttgggca gctcagagat aatctaaaaa aggaaatata acctcttctt aatgtttgca 360  
ttcaggctcc aaagtcaaca cgtgggcaat ctggaaaagc attcaagtca tctggagttg 420

<210> 12063  
<211> 382  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C4

<400> 12063

cccacgcgtc cgaaagccgg ccgagccata accgccgccg caggccattg ccgacttgcg 60  
gtgaaccttg tcttgcaacg gcttccaagt caagggccca ccgccaccgg ttgggaaggg 120  
ccgccaaagg tatcccaggg aagcctgtga gcgaaggctg agagaggcca cgccgtccgg 180  
agtctccagt tccgtcgcca cagcttcttg ccgcgcctgt gccgaggtaa acgagagggga 240  
tcgaggaaga agtatcccc ggagcccctt cccccgaacc cgaaggctcc ggaatggcgc 300  
actgggttag cgacagtgat ggcagtgaca actttgaatg ggatagtgat ggcaatgggg 360  
aggaaccagc gaacttcaat gc 382

<210> 12064

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C5

<400> 12064

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gatgcaggct ctccaaggct tcaagatcac cccggagaac cccatggcta taccctatgc 120  
caaaaaatga gaaccctagg ggactctgta ccggccttctg ttccgtactc tagtattgat 180  
cccaaatacca cgtgtgctga ggtggattgt ggtgtaaatt agtttaagtt acaccctaata 240  
ctacctcaat acatgtagat tgagctcaat actagagtat ccaaactaga cctaagatct 300  
ttccgctccg cttttagaaa tcgagccacg gtaccactt tccagtcatg tgtttttggga 360  
aagcactcgc ttgatttcga aattaaactc ttaacacttt taaatcaagg tttggccct 419

<210> 12065

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C6

<400> 12065

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 acccatgccc gtgccaacag ccgcatccaa gcccgtgcc gctgcaggga acctgcggcg 120  
 taggcagcac caagatcctg ggccagtgcg tcgagtttct gaggcacctc tacaatcgat 180  
 ccgaaatcca ctactgctca cctgaattcc agtctaaatt actgtaagtt acaccgttaa 240  
 ttacctcaat acatgtagat tgatctcaat actagagtat ccaaactata cctaagaggt 300  
 gggcggttct cttttataaa tctagccacg taactcactt tttcagtcac gtgttttttg 360  
 aaagca 366

<210> 12066  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-B10  
 <400> 12066

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 cagtaagtca tgtgtcggtt aagctgccaa tgtgcctgcg tcgtctggtg ccctctctcc 120  
 atatggaggt tgtcaaagta tctgctgttc gtgtcatgag ttgcgttaac attggattaa 180  
 ttatggatcg cttgtcttgt ctgtgcgtac taccaggac tatcactatt catgattcaa 240  
 gcttatgtat gcattcatat cagctgctca atcttctata gtgtgacctt acttta 296

<210> 12067  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-H3  
 <400> 12067

cccacgcgtc cggtaaagg agaggaagat catgtacact agtgaactgg agaagaaggt 60  
 ccagactctg caaacggagg ccactacgct gtcagcacag ctgaccctgc tccagaggga 120  
 tacaactggt ttaactgccg aaaacagaga gctcaagctt cggttgacgt ccatggaaga 180  
 gcaagctaaa ctgcgggacg ctttgaatga agccctgcga gaagaagtcc agcgacttaa 240  
 gattgccgca ggacaagtct tgtacatgaa tgggaacccc ttcaatggtg gactccatca 300

tcagagggca tcctatttcg tgca

324

<210> 12068

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H4

<400> 12068

cccacgcgtc cgccggaagg aagagatgcc agagtcacat ggccatatgt ggaggacgaa 60  
tcgtatatgt ggacatggct tttttttgtt ccactagctg cttacaccct gtggcaactt 120  
atgtatttcc tcatagttaa tgtcctgcgc cggcagaggt tgттаaggga tcctgaactc 180  
atcacatcct acagagagct ctcaaagaaa gcacagaaaag caaacaacat ctggtggagg 240  
ctgagcggac tgctgggtga ccggaaccgg caggtcatgt acatactgct ccaggcgtg 300  
ttcacagtgg caacaatggc cctgacggtc cctatatccc tgtcctaccg gatgcacgtg 360  
gtgttcctga tacttaaggt gtgcgcctcg acatggaaac ggtggcagct ttatcttgga 420  
ggtgatg 427

<210> 12069

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H5

<400> 12069

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tgctacctcg cccaaatctg ttttccactg ctttgacggc gagaacgtgg agagtgtccc 120  
tcctcctatg aagaaggact acaagctggc taatcttctc tgctgggagg aggaagcgga 180  
tgccatggag gagaaggcgg gagtgcttga tgagtaagac gggcttctgg ggtcgatttg 240  
cttctgagtt gtttatttta tatcgtcgca atttcgtggt tgcgttttg ttattct 297

<210> 12070

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H6

<400> 12070

gcttgagtca gagatcccta agtttcgata cactgtccca gtggatttgg gactgcgagg 60  
gaggagcagt tcatectccg cgtgccgcca tccgtcgcag agcggatcga gcgcctcatg 120  
aatgaatccg ccgcctcctc ctccaacccc gacgaggcct acctggacct ctccttctca 180  
gaggatggaa gaaatggcac atttatgata ggtaatgaga gctttcctgc atctctcttg 240  
gatctacctg ctgtggtgga gtcatacaaa acatatgatg attctgtact aattaaaact 300  
gctgatgttg gtcagatgat tatggtaaga gaagaaaatg atcctgctcc agaaggagtc 360  
gagtacaagc atgggcttac tcctccaatg agggatgcac gcaggcgacg tttccgcaga 420  
gaaccagac 429

<210> 12071

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H7

<400> 12071

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaatt aaaaaaatat ataaaaaatt 180  
atattaatta aaaaaatatt attaattaaa taaattaaaa taataaaaaa aaaatattta 240  
atataataat ata 253

<210> 12072

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H8

<400> 12072

cagtcacca cactaacgaa cgaactcttg ctccgatcac gagctagctg agggcgacga 60  
ttgccgctgt gcttaacagc aaggagaccc cgcaagttgt tgccgttctg ggtggtggtg 120

gcgctgctgg cttcgtccgc ttcggcggca atcacttgcg ggcaggtggg gtcgtcgttg 180  
gcgccgcgta tcggtgcgcg acg 203

<210> 12073  
<211> 255  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-H9

<400> 12073

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ntctcgtcgt gtgcctggct ctgtcagctg ccagcgcctc tgcaatgcag atgccctgcc 120  
cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg cctgacgacg atgatgggcg 180  
ccggcgggct gtacccttac gcggagtgcc tgaagcacgc tcagttcatc cagacagcgg 240  
cggctactta ctact 255

<210> 12074  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A1

<400> 12074

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gatgcctgct ggccacggcc tgcgctcgcg gacgcgcgac ctcttcgcgc gcccttccg 120  
caagaagggc tacatcccgc tcaccaccta cctccgcacc tacaagatcg gcgattacgt 180  
cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240  
caccggtcgc gtctggaacg tcaccaaacg cgccatcggc gtttaggtca acaagcatgt 300  
caatggg 307

<210> 12075  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A11

<400> 12075

caaaaaaaaaa aataaaaaaaaa actaaaatta aaaaacaaaaa acaaaaaaaaa atagaaaagc 60

tacattttca aaattaaaac aatctccaac tgcttatacc aataccattt tcccacaatg 120

ctcacaaact cctataactt ccctttcttc ccctacctc tcaccatctg tatcttctat 180

atgttaaaac ccaattctta aaccctatac gatccaacat gcaatctcat ctttcatctt 240

acctttatca cccttttttc ttcaacaatc atcaacctta ttacaacatt tacctttggt 300

tcattttattg tcacaaaaca tcatatcaca acaactacaa catactgttc tatcaaacct 360

ttctttataa tcttaacatc aatattttct ttctat 396

<210> . 12076

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A12

<400> 12076

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acttccttct tgacacagca tcagctgctg actttctacc agcagtttgc ggctaaccct 120

gcaaccctat tacaactaca acaatcgtag ccctttgtcc aacttgcttt gacagaccca 180

gcggcctcct accaacaaca catcattggt ggtgccctct tttagatagc ttattagttg 240

taattcaata ataaagtttt ttggatgatg tatgtggcca accagaaata ggaagttaca 300

tttccaa 307

<210> 12077

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A2

<400> 12077

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gacggttggt tgaactacat tgaggaaaat gatgaggtct tgattgctgg atttggtcgt 120

aaggagcacg ctgtgggaga tattcctggt gtccggttca aggtcgtcaa ggtttccggt 180



gtgtctctgc ttgccctttt caaggagaag aaagagaagc caaggtctta gattgctctt 240  
gctaccaaaa tcagcaagcg tggagttgaa acgggagggc gttagatgat taataagaat 300  
ggttgcttgc tatgtttgca gtgcattcgt gcaattgtta acctaagatt ttgttgggtga 360  
aaacgatttc ttttcagact tgcttctgtt gagtgcctatc attccatatac aatgtacttc 420  
ctc 423

<210> 12078  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A3

<400> 12078  
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gatcaaatac gaattgatct ggaaagcact accaatcact tgcaacccaaa ctacgatgaa 120  
aattctatgc tgcaatctgg tttctcttgg gctcctgaac agaacagaag agccccctact 180  
acagatttct ggaaaaatgt tgaaa 205

<210> 12079  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A5

<400> 12079  
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cagctccgag gcagggtta aaaagcttga tgagtacctt ctactcgca gctacatcac 120  
tggtaccaaa gttccaagg atgacttggc tgtctacact tcgttttcgt ctgctccctc 180  
gtccaagtat atcaacgtag caaggtgggt taatcacatt gatgcgctcg tgaggctgag 240  
cggaattact gcaaagggcc aaggtgtgaa ggttgaatcg tcagcagttc cgtcagcccc 300  
aactccagat gttgctgaat cacatgcccc agttgctgaa gaggacgacc actatgattt 360  
tgacctttt 369

<210> 12080  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-A6  
  
 <400> 12080  
  
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 cgtacatatc ccgtcaccaa ccgatcctac accctccagc atggccgttg cgactgccaa 120  
 cgccgcgaca gccctggctc ttgcgctcga tctctcgctc gcggacacca actctgaggg 180  
 cgacgcgctc tccacgcttc tccacatcct aaggtacccc atctacattc 230

<210> 12081  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-A8  
  
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 tacaagcggc agctgcggct gccagccacc gccgcccgtt catctaccgc cgccggtgca 180  
 tctgccacct ccggttcacc tgccacctcc tgtgcatctc ccaccgccgg tccacctgcc 240  
 gccgcccgtc cacctgccac cgccggtcca tgtgccgccg ccggttcata tgccgccgcc 300  
 accatgccac taccctactc aaccgccccg gcttcagcct catccccagc cacacccatg 360  
 cccgtgccaa cagccgcata caagcccgtg ccagctgcaa ggaacctgcc gcgttggcag 420  
 caccocgata ct 432

<210> 12082  
 <211> 249  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-B1  
  
 <400> 12082  
  
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gaggggtgct cggcggccat gggagaatgg tgcttcaaga aacgcgcagc tctgggtgatt 120  
attgtggcca ttattagctc gctgcagctg ctctgataa ctgctcaaga agctggagga 180  
gaccaacgagg tgtggtcgtc gtcacccctcg cgggcgggtg gtcgtgggtg cggcgccgctc 240  
gtcgtcccg 249

<210> 12083  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F9

<400> 12083

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cagcaacaac aatttcttcc attcaaccaa ctgtctacat tgaaccgtgc tgcttatttg 180  
cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca acaacaactt 240  
cttccattta accaattggc cgcactgaac cccgctgctt atttgagca gcaaatacta 300  
ctaccattta tccagctagc tgcagcaagc cgtgctttct tcttgacaca gcaacagttg 360  
ctgcctttct accagcagtt tgcggctaac cccgcaacct tcttacatct acaacaattg 420  
ttgccctttg tccaac 436

<210> 12084  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G1

<400> 12084

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cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180  
tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240  
tgcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300

aatacaaacc atcgcaacgc aacagctaca acagtttcta ccatcactga tccacctatc 360  
catggtgaac tctgtattct tattgcaaca actgtttttt 400

<210> 12085  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G10

<400> 12085

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attgcatcca cttttatgac tcaagggtggc atacccccctt caacaaaccc aggttcctctg 180  
ctaaaggaag ctatacatgt cattagttgt ggatatgagg ataaaacaga ttggggtaaa 240  
gagatcgtat ggatatatgg ctctgttact gaagatattt taactggttt caagatgcat 300  
gcaggagggtt ggatatccat ctactgcatg ccacttcggc cttgcttcaa gggttctgct 360  
ccaatttacc tttctgatcg tcttaaccaa gtgtta 396

<210> 12086  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G11

<400> 12086

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acatacaatg cctggcggcg tgagcctgag gagggaacct taatgtactg cagccgcact 120  
atTTTTgagg atgctactcc tgaactgggt agagatttct tctgggatgg tgattttcgt 180  
ctaaagtggg atcccatgct tgcattttgc aaatctttgg atgagttccc tcagaatgga 240  
gcaacaattg tccactggat aaaaaagttc cgtttctttt gcagtgaccg tgaatacatc 300  
tttggaggac gcatatggta atctgggaag acttactatt gtgttactaa ggggtgtcca 360  
tatccatcat tgcccatgaa agaaaaaccg aggcgtgtgg agctgtactt atcaagggtg 420  
cgtattaga 429

<210> 12087  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G12

<400> 12087

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atgtctgggc gcggcaaggg cggcaaggggt ctgggcaagg gcggcgcgaa gcgccaccgg 120  
aagggtgctcc gcgacaacat ccaggggcatc accaagccgg cgatccggag gctggctagg 180  
aggggtggcg tgaagcgcat ctcggggctc atctacgagg agaccgcggy cgtgctcaag 240  
atctttctcg agaacgtcat ccgcgacgcc gtcacctaca ccgagcacgc gcgccgcaag 300  
accgtgaccg ccatggacgt cgtctacgcy ctcaagcgcc agggccgcac cctctacagc 360  
ttcagaagct aggctaggcy cctgttcgta gtcggtgact ggtagggga catgtctctg 420  
ggtgatgctt tttgaggtag tatt 444

<210> 12088  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G2

<400> 12088

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gtgtgttctg cagagcaaatt ggtaagttag attgtattac aggaagttgt actacaacgg 180  
tgaatacaat cactgagatg agaacttgaa gcaacagctg aaacgacgaa tcaaaagatg 240  
aatgtcttca tattccaagt gtcatgagtt gcggacactt tgtatagaat tatgtcttct 300  
attgtatttt atccatacta ttaagaggag ttgtggatga gttattttga ccaagataat 360  
gctagtgtat tggtgtatca tattgcacac tctattacta gtttaactct a 411

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<212> DNA  
 <213> Zea mays  
  
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 ccgtcctccg tccgcgtgt tctcatgtcc gccgggctgt cgacggagct ccgccacaag 180  
 tacaacgtgc gtcctatccc gatccgcaag gacgactagg tgcaggtcgt gcgcggcacc 240  
 tacatggggc gtgaggggaa ggtggtgcag gtgtatcttc gtcgctttgt tatacatgac 300  
 gagcgggtca cttttgttat tttttatctt ttcattttta tcttttatctt tttctacttc 360  
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 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 12090  
  
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 tcattattcc acaatgctca cttgtctcaa gttccattat tacacagttc ctcccaccag 180  
 ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaattg 240  
 cggcgagcgt cttacaacaa ccaatttccc agttgcaaca acaattcttg tcacatctaa 300  
 cagtacagac catcgtaact catcagcatc aacaattcct accagcactg agccacctag 360  
 ccatggtgaa ccctgtcgcc tacttgcatc agcagttgct tgcacaaac ccacttgctc 420

<210> 12091  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-H1  
  
 <400> 12091

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catcatcacc acccctaacc ccgtgttcag ccacctggct gggataactt ccgtctggaa 180  
cgccatattt cctgatgtgc tgcaggcatt cttcaacacc actcctgaga tggataaact 240  
gttccgcttc aagatgctcg actcgtagat ctttttcgcg cttttcagct tcaactgaaa 300  
caccagctct tcaatacttt ttatatgaga tegtcttga ttgttgtaa tgcattgat 360  
attaataatt aaat 374

<210> 12092  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-H10  
<400> 12092

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gttccccgtc ctcaacctcg tacagatgag cgcggtgcgg gtagacctgt accaggacgc 180  
catcatgtcg ccgttctgga acttcaacgc ccacagcgcc atgtacggca tcaggggcag 240  
tgcaagggtc caggtcgcca gcgacaacgg gaccacggtg ttcgacgacg tgctccgtgc 300  
ggggcagctg ctcatcgtac cccagggtta cctcgtcgcc accaaggcgc atggagaagg 360  
cttncagtac atcgcttcg agacgaaccc tgacaccatg gtcag 405

<210> 12093  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-017-Q1-K1-H11  
<400> 12093

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gctcggccgt 120

tttaaaggtc ccaaccttcc ttccctttcc ttccaacttc ataccttttt tatagtgcc 180  
 cctaattttca tttcactgcc cttcttttta caccttctta cctggaaaac cctgccttt 240  
 cccaatttta ttccctttgc atcacttccc cttttcccct gttgccttat taccaaatag 300  
 ccccgtagct atcgctcttc caatcathtt cccaccctta ttgtctattg taccctccct 360  
 ttttctgcc cttatatccc tctttttttg gttttaactc tcattttacc ctttttattt 420  
 tctttttctt atttcttttt tt 442

<210> 12094  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F8

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 ataaaatcat catattatat atgactaact attatatttc aaatcatatt gaaaattaga 180  
 ttgtatacag aaagtattac aacaactctt aaaacaatct cttatatgat aactttaatc 240  
 tatt 244

<210> 12095  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E2

<400> 12095  
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 ctgagggtata ctgtggtggg caagcatcaa caggaagatg ggtacatggt gatgttgtga 180  
 ataatctcat tgatgctgaa cagaatgtag aagcttcttc tgccgtttgc aagaagcctt 240  
 taagatatgt tattgctttt gctggaaatg gagccaagga tgtaaccaga aggtattgct 300  
 tgcagtggca cagaattgca caaggcagag tgaattcaga gtggtgggat aatgttttgg 360



cgccactaat acagatggaa ctggcagcaa caaacaacta tgaagacatg gaact 415

<210> 12096

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E3

<400> 12096

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attgacagca tggatcaatgg cacctcaatg gatgatgatg atatcgagaa gaccgatgca 120

tctcccaaga aaagcaagaa aaagaagacc aaaaccaagg ctgatggtga tgcaatggac 180

gtggataaac cctccaacgt tgctggtgga gaagctgagc ctggaactga gaagaagaag 240

aagaaaaaga agcataagct ggaggaggag gcacaggagg agaacggtgc agcagatact 300

accctaaga aaaagaaaaa gaagagccgt gaagcttccg aagaagctga acctaagacc 360

gtcaccgatg gtaagaagaa gaaaaag 387

<210> 12097

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E4

<400> 12097

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agagcttttc ttctacagag acccagagga agcgaagcag ctggaggaag aagaggctct 120

ggttgcacct gactatggcg cggttgcaga atacactgca ccaggcgctg acaactgggg 180

cggatgaatgg ggtgctggcg aagctgcagc tccagctgct agcattccag ctgctggcgc 240

agactgggct gctgctccag ctctctctgc tgacgggtgc tgggacgcag ctgttgctcc 300

agctgcagca gcagcccccg gatgggaaca aggcgcggcc cccgttgctg cgctgacccc 360

tacctgggag taattaataa agagttaatg atcatggtgg a 401

<210> 12098

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E5

<400> 12098

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cattggaagg atgaattcgt ttgtacactg cagcattact ggtagggac aaaactactc  180
tgggcagatg ttaggatctc atcaagattg ctggtgaaac ttgctggggg gaagagcctt  240
tcaagaagag agaggcaaca gctgacacgc acaacatcat atatcttcag gcttgatccg  300
ggggctgtgt tcatcattgt tccattcatg gaattcttac tgccagtctt ttttaagtta  360
tttcctaaca tgcttt                                     376

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<210> 12099

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E6

<400> 12099

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tcgtcggcgg tgatggctgg gggtttacgc ggcgtgagca accctctgga ggagtggagc  120
gggcgcgtga aggcgattga ggccgggttc cgcgcgtgga tggcgaagca acccatccaa  180
atcgaggccg cggtgaccac ggccgtgggg gcggtgcagg gcggggctct ggggtgggctc  240
atgggctcgc tcacagctga cggcgggtcg ccgttcccca tcccgagcc gtcgtccaac  300
gggacccata ggccatggcg tcgttcaagc aggccaggc tttagctggt ggacctttgg  360
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<210> 12100

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E8

<400> 12100

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 ttttttatct atttgattgg atggacataa gcgctcacct tggaagaaac taccagatt 180  
 ttaccgaatg attttgct 198

<210> 12101  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-F1  
 <400> 12101

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 gtcaccagcc ttgcagcagt agaggtacta cgtgcacgcg atggaagcca agatgtgatt 180  
 aactctgtag atgttacatg tgggtctcagt ttgggagagt ataccgctct tgcatttgcc 240  
 ggtgctttta gctttgagga tggactgaag cttgtcaagc taagaggaga agctatgcag 300  
 gatgcttcag atgctgcaa tagtgcgatg gttagtgtga ttggtctgga ttc 353

<210> 12102  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-F10  
 <400> 12102

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 ccgccgggaa gaagcccaag gcggagaagc ggggtccccgc gggcaagtcc gccggcaagg 180  
 agggcggcga gggcaagcgt ggcaagaaga agggcaagaa gagcgtggag acgtacaaga 240  
 tctacatctt caaggtgctg aagcaggtgc acccggacat cggcatctcc tccaaggcca 300  
 tgtgcatcat gaactccttc atcaacgaca tcttcgagaa gctggccggc gaggcctgca 360  
 agctcgcgcg ctacaacaag aagc 384

<210> 12103  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F11

<400> 12103

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catgagctct gcctggcaag caggccccgac gacgacgacg atgaccgcta ctgactagtt 180  
tcgttgcaca tggttcatct gttttatatg ctatatgcta ttgttcgtaa ctacttccag 240  
tatgttggtg ggtaatcggc atgagaaaaa atagtggaaa attaattaaa aaagtttagac 300  
tagaagattt tagtgtattt tgttttcacg ggagaagttt tcttttatcg gtctagatag 360  
attctatggt ct 372

<210> 12104  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F12

<400> 12104

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tgatatccaa ccttgcattt gttttccgca acatcttctc gaagaggggc atgaagggga 180  
agtccgtcag tggcatgaat tactacgctt gcctgtcaat tatgtccctg gtcatactga 240  
ctccatttgc tatagctatg gaaggccctc aaatgtgggc tgctggttgg caaaaggctc 300  
ttgcagaagt tggaccaat gttgtctggt ggattgctgc acagagcgtg ttctaccact 360  
tatataacca ggtgtcctac atgtctctcg atcagatttc tccattgaca ttcagcattg 420  
gcaatacaat ga 432

<210> 12105  
<211> 410  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F3

<400> 12105

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ggaggactat agaggactgc caagtgttc tggatttctg gtgcaagact gaggtacat 120

gaggtcatg ctggttcttc tgagtctgtg gtggagatcc agggcacact ggaccaagca 180

aaagctgctc agagcctcct ggagggcttt atcagcgcga acagcaggca gcagcaatcc 240

cattcttctc gcatgccact ttaccaaga tggggatagc ttctggttgt ggcaggggaa 300

aaccgagtca gcaagggttg ctggagttat cttagactgc agattagatt catcgatgat 360

gttaatggta gctgtttaa ttgaccgtgc aagcctgata acttatatta 410

<210> 12106

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F5

<400> 12106

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ggtgggtacg gtggtggccg tggaggcgcc ggctacggcg gtggcgggcg ccgtgatggc 180

ggtggcggtc acggcggtgg cggcggttac ggtggcgggc gcggctacgg tgggtgtggc 240

ggcggtact gcggtggcaa ccgtggcgcc tgcttctgca actcctactg gaactggagg 300

agctgagcgg ttgtgcccgc tcggtcaagt taccctgttc gctaccgtga tgttaccct 360

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<210> 12107

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<212> DNA

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 tgcaaagaag ggtggtgaga ggcagttcaa tggactcggt gatgtttacc gcaagaccct 180  
 tgccagtgat ggtattcggt gcctctaccg tggattcaat atctcttggt tggggatcat 240  
 tgtgtaccga ggtctttact ttggtatgta tgattccctg aagccagtgc ttcttggtgg 300  
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 tggccttgcc ttctacccca ttgacactgt tct 393

<210> 12108  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F7

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 tggtcgcacc ttggctgact acaacatcca gaaggagagc accctccacc tgggtgctccg 180  
 cctcaggggt ggtatgcaga tttttgtgaa gacattgact ggcaagacca tcaccttga 240  
 ggtggagtcg tctgacacaa tcgataatgt caaagccaag atccaggaca aggaaggcat 300  
 tccaccggac cagcagcgcc tgatctttgc tggcaagcag ctggaggatg gccgtaccct 360  
 cgccgactac aacatccaaa aggagagcac cctccacctg gtgcttcgct tgcgaggtgg 420  
 tatgca 426

<210> 12109  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E11

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cgacaatttt ccctcaatgc tcacaagctc ctatagcttc ccttcttccc ccataccttc 180  
catcaatgat agcttcagta tgtgaaaacc cagctcttca gccctatagg ctccaacaag 240  
caatcgcagc aagcaacata cctttatcac ccttgttggt tcaacaatcg ccagccctat 300  
ctttggtgca gtcattggta caaaccatca gggcacagca gctgcagcaa ctcgtgctac 360  
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ttccattcaa ccaact 436

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<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C8

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atctcaacaa tcaaacatga catcatagaa accaaatatg agattgctca agcttcaaca 180  
gcaacccttc cagccacctg gtccagatca cgccttcctt gggagggtgat gcgccgtcca 240  
cccttgggat cgacatcaat gatgcccatc tcctgcagct gctggaggat gttgcgtgaa 300  
atggcaccac tgctcttgca gaagtgaggt gggcgtgagc cattcctctg gcggccacca 360  
taaattcttct ggaagccacc aacaccaatg ccttgtctca agtagatctt ccttgctaca 420  
gatgcagccc 430

<210> 12111  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C9

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caagaagctt aagctcaagt gtctcatgaa acacatcggc ctggtccagc aagagccggc 180

gctgttcgcg acgacgatct acgacaacat cctgtatggc aaggacaggg ccacggaggg 240  
cgaggtcggt gaggcagcca agctggctaa cgctcactcg ttcatgagct cgtttccggg 300  
ggggtacatg accatggtat gtggagcgcg gcttgcacat gtcgg 345

<210> 12112  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-D1

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cggaactgct gccttgcccc ccgcgccttt ctcttccatg tttgctgcta caatcttggt 180  
gttgggcatt gcagtgcacg gtgcacactt gtgtagcccg cctcgagaat tcctgcctct 240  
gcatctggtc agttctaaaa tgatttgcac gttggctatg ttgtgtaagc tctatttatg 300  
gtgggtctcgc tgagacgggt atttggttc gcagttatct agctatgtga tgtactgttg 360  
tcttgctcct ggggtattata tggtagactg cagccagtaa tagtataaaa tata 414

<210> 12113  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D10

<400> 12113

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caacagctgc ttccattcaa ccaactgact gtgtcgaact ctgctgcgta cctacaacag 180  
cgacaacagt tacttaatcc actagcagtg cctaaccat tggtcactgc cttcctacag 240  
cagcaacaat tgctaccata cagccagttc tctttgatga accctgcctt gtcgtggcaa 300  
caaccatcg ttggagggtgc catcttttag attacatatg agatgtaatc gataatgggtg 360  
cccttatacc ggcattgtgt tcctagaaat aatcaatata ttgattgaca tttatcctcg 420



ataaaaaatt ta

432

<210> 12114

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D12

<400> 12114

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agcaacatca cgatgtcgtc caactgcggc gaggatgaga aggagctggt gtgcgtgacc 180

ggcgccggcg gcttcatcgg ctcggtgggtg gtgaatgagc tgctccagcg gggttaccgc 240

gtcaggggaa cggcgaggga cctgctgac agcaagaacg cgcacctgct ggctctggag 300

ggagccaagg agcgcctcac cctgtgccgc gctacgttc tcgaccgcgc ctccctgctc 360

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<210> 12115

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D2

<400> 12115

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gcagcgagca agtccaataa cctacagtgc ttggaatttg tggaaggaga gatgctggcg 120

aatctttgat aacagacttt gctttgtact ggatgagaag gcagagcacc tgccaggctc 180

caatcctgcg tcagcgttcc tgctccctg gctccctgcc gtctactcgt ctccaagaat 240

catgct 246

<210> 12116

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D3

<400> 12116

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caggttcttc cattcaacca actagctgca ttgaactctg ctgcttattt gcaacaacaa 120

ctaccattca gccagctagc tgctgcctac cccaacaat ttcttccatt caaccaactg 180

gcatcattga actctcctgc ttatttacag cagcaacaac tactaccatt cagccagcta 240

gctgggtgtga gccctgctgc cttcttgaca caacaacagt tattgccgtt ctacctgcac 300

gctgcgccta acgctggcac cctcttacia ctgcaacaat tgctgccatt caaccaactt 360

gctttgacaa acccagcaac gttctacaa caacccatca ttgggtgggtgc cctcttttag 420

atttct 426

<210> 12117

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D5

<400> 12117

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gggaaggatga ggagcgatgg cgcgcggcgt ggtgtcggcg aagggcgggc cggtcgcggg 120

caagaagaag gggtcgggtt ctttcacgat cgactgcacc aagccagtgg aggacaagat 180

catggaggtc gcctcgctcg agaagttcct gcaggagcgc atcaaggctc cgggcggcaa 240

ggctggcaac ctgcggcact ccgtcacat ctttcgcgag aagaccaagg tcaccgtcac 300

gggggacgga cccttctcca agaggtacct gaagtacttg tccaataagt act 353

<210> 12118

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D6

<400> 12118

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ccaatctgtc atatcgttta agcccacaat ggtaacaata ctttcccccg aggttgcaga 120

aaaagaatca gaagctggtg ggaagatggg tgacctagat tcttatgaga ttgaaggcgg 180  
 cgagacaaaa tcagagattt tgcagaatct agctgagttc cagttttctt gtgtcctgta 240  
 caatggtgcc ctagagaatg catgcagtga gcttggagcc cgtatgtctg ccatggacag 300  
 ctctagcaga aatgctggcg atatgcttga tcgtctcact ctcacttaca acaggacacg 360  
 ccaagcatcc atcaccacag agcttactga gattatatct ggtgcatcgg cccttgaggg 420  
 gta 423

<210> 12119  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D7

<400> 12119

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 ttatttttaga ttattttttg gcgttttacc cacactaccc ttgaaactta ttgagttctt 180  
 atccagcaaa taagattatg taatcctgga ttatataggt tcaaagcttg ggacagcaat 240  
 ttgttttagag tcctgtataa tctagctgtc acgtctcatg actcacgttg agaaagatga 300  
 ggggatttgc atcgtttatg gtttagtaag tggcttatta ttatattttt atttagtttg 360  
 gccgtttttt agtatccaat ctttatttac gcttgcattc tactttatat ctattttta 419

<210> 12120  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D8

<400> 12120

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 gctgagactc ccgcgccgtt ggtggatgcg gccccagagg cgcccgccga cgccccggcg 120  
 gcgcctgctg ccgacgcgaa gccggccaag gccagaagg ccaccgcgcc gaagaagcgc 180  
 gccagcccga cccacccgcc gtacgccgag atggtctcgg aggcgatcac gtcgctcaag 240

gagaggacgg ggtccagcag ctatgcgatt gccagttcg tggaggacaa gcacaaggac 300  
 gggctcccg ccaacttccg caagcttctg aacgttcagc tcaagaagct cgtcgcctgc 360  
 ggcaagctga ccaaggtgaa gaactcgtac aagctggcgt tcgccgtcac caagccgaat 420  
 tccaagc 427

<210> 12121  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-D9

<400> 12121

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 gacctgggtg agcgggggaa acacactagc gaagcgcata cacgacctaa caacaatggc 120  
 ttacaagaca ttatccctct tgccttttgc cttttggagt gcaacaaatg cgttattatt 180  
 ccaaagctca ctgctcagtg ccattattcc acagtctcct ccagttctta atgggcttcg 240  
 aacaccact gtgcaagcct ataggctaca acagcgcttg ctgcagcgtt 290

<210> 12122  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E1

<400> 12122

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 ccaacaagca atcgcagcaa gcaacatacc tttatcacc ttgtttcaac aatcgccagc 120  
 cctatctttg gtgcagtcac tggtacaaac catcagggca cagcagctgc agcaactcgt 180  
 gctacctgtg atcaaccaag tagctctggc aaacctttct cctactctc agcaacaaca 240  
 atttcttcca ttcaaccaac tgtctacatt gaaccgtgct gcttatttgc agcaacaact 300  
 attaccattc agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa 360  
 ccaattggcc gcaactgaacc ccgctgctta ttgacagcag caaatactac taccatttag 420  
 ccagctagc 429

<210> 12123  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E10

<400> 12123

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acttgctgct atcggcgaat gcaggagtgc tgtaattgag agagctgcta gtagctgcaa 120
atatttggac aaggagaggg ttttaagatg ccatgaaatg attcaagaga agattactgc 180
gggaagcatt gtcctaaagt ctgctggatc atcaatctgc tctgtgccac aaagcccaat 240
atgtgtactg gacgctgcat cctgtctgag tcaacaaagc gatgactcta ctgtcgggtg 300
tgctgcagta tgttaccata gttcttcac aagcaatagg agaaagatca ctatacgtct 360
actcta 366
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<210> 12124  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C7

<400> 12124

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gtcgaactct tgtctgatat gcttggtgct cggtattttc ggagtgggtcc tgctcatagt 120
gataatagta cttgcagcct aaaagcttgg aaggcagctg ggggttcgaa atctgatcga 180
gagcttattg cgacaaattc cttcataagt tattttttgct gtgctgctag gaatgattcc 240
tggtacccat gcggtgattg gcgctctgct tgtggtgtgg cggtatatgt ggtgatgatg 300
gggtctgatg cataaaagta ctctttcttg caagtgtatt gcctcatgca cggttttgtt 360
tatatattgt gatgtattga tgcttgatgt ataacaaggt tggat 405
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<210> 12125  
 <211> 199  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B11

<400> 12125

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aacaacacat cattggtggt gccctotttt agattgctta ttagttgtaa ttcaataata 120  
aagttttttg gatgatgtat gttgccaacc agaaatatga agttacattt ccagatgtta 180  
atgtgaaaaa aaaaattga 199

<210> 12126

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B12

<400> 12126

gatcgtcgaa cagaacagca tgaagatggt catcgttctc gtcgtgtgcc tggcgctggc 60  
agctgccagc gcctctgcaa tgcagatgcc ctgcccctgc gcggggctgc agggcttgta 120  
cggcgctggc gccggcctga cgacgatgat gggcgccggc gggctgtacc cctacgcgga 180  
gtacctgagg cagccgcagt gcagcccgtt ggcggcgggc ccctactacg ccgggtgtgg 240  
gcagccgagc gccatgttcc agccgctccg gcaacagtgc tgccagcagc agatgaggat 300  
gatggacgtg cagttcgtcg cgcacagct gcagatgatg atgcaacttg agcgtg 356

<210> 12127

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B2

<400> 12127

cccacgcgtc cggcctggtg atctgaatga ctggtaccgc cacacatcta aaggtgcatg 60  
gccgttctca actgctgata atggttggcc tatactctgat tgcaactgctg aaggactaaa 120  
ggcttcatta ttgttatcaa ggatctctcc caaaattgtt ggtgaaccga tggaagctaa 180  
tagattttat gatgctgtca gttgtctgat gtcttatatg aatgataatg gcggtttcgc 240  
gacatatgaa ctcaacagat cttatccctg gttggagctg atcaatcccg ctgagacctt 300

tggggatatt gtgattgatt acccgtatgt tgaatgtaca tcagcagcaa ttcaggccct 360  
gacatcattc aaaaaactat accctgggca cgcagggaaa gaggtggata actgtatcag 420  
caaagc 426

<210> 12128  
<211> 353  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-017-Q1-K1-B5  
<400> 12128

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acgccaatgc taagttaaata tttggagata aagggtatatt ggcatttgaa catataacat 120  
gggctccata ccagaccaag ctgatagaca cggggcttct gacctgtgt gagatcgact 180  
gggtgaacac gtaccactca gactgccgga agatcttgga gcctcatctg aacgagcagg 240  
agaagcaatg gctgatgaaa gctactgagc ccgtagctgc aagaggctga gccttttcgt 300  
gaacgttgca tgccaccgag cgccatgctc atcttctgcg tggcatacat ata 353

<210> 12129  
<211> 423  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-017-Q1-K1-B6  
<400> 12129

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tgcataacga aacacatcgt cgtcggatcg gagatgatga gttccgtcgt cgtggatgct 120  
gctgctacca gcagcagcga gaagaagacg tcgtggcccg aggtggtggg catgtccatc 180  
aaggaggcga cggagactat tctcaaggac atgcccaacg cgtacatcca ggtgctgcct 240  
gttgggtcgc ccgtgacgct ggaccttcgc cccgaccgcg tccgtatctt cgttgacacc 300  
gtcgccatga ctccgacagt tgggtgatac ataccaaatg caataaaca accctacttt 360  
ttattttatg tttccagtta ataataaacc aggccttagc ttcttggttg tccttccttg 420  
gtt 423

<210> 12130  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B7

<400> 12130

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tacatcacta atcaattcgc ctgctcaact atcaatttcc caatcctcta cacttaattt  120
tattccttcc accattaatc tctactacct ccttcaattc ttctgtccc atcctattta  180
tgtctttttc ctctcttttc tttcttttct tttttacctt tttttttctt tttactttcc  240
tttatatatt attttttttt cctctttcat tcttttcttt ttttttctct tttttttttt  300
tttttttttt ttttttttct tccttttctt gtttcttttt atatttctat tttttttttt  360
attttttttt tttttttttt tttattttat tatttttttt tttttttttt ttattttttt  420
tttttttttt tttttatttt ttttttatat tttttttatt                          460

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<210> 12131  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B8

<400> 12131

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agatctcatt gcctcctaag tcctatcgcc caccctgatc accgcgcggg tatcggagca   60
tggcgtctgc ggcggcggtg gacgccggcg acgcgccgga gccacgggtg cggaacctcc  120
tagaccagga gtccctcaag tgggtcttcg tcggcggcaa gggcggcgta ggcaagacca  180
cctgcagctc catcctttcc gtctcctcgc cgggggtccg ccagtcctgt ctagtcatct  240
ccaccgacct cgcgcacaac ctacgcgatg ccttcagca gcggttcacc aagtttccca  300
ccctcgtccg cggattcacc aacctctacg ccatggaaat tgacctgaag gtagaaaatg  360
atgatttagc caatgaagga atggagggat tcctttcaga actgacaaat gcgattccag  420
gagtagatg                                         429

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<210> 12132  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B9

<400> 12132

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ccagaagcca ttgcaaagta cacgctaaca atgctcagaa ggagagtacc tcccgtctgtt   120
cctggaatca tgttcctttc tgggtggacag tccgaggtgg aggcaactct gaacctgaat   180
gcaatgaacc agtctctgaa cccatggcat gtgtcgttct cctatgcccg ggctctgcag   240
aactcgggtgc tgaagacatg gcaagggcgc cctgagaacg tggaggcagc gcagaaggcc   300
ctgctgggtgc gcgcaaaggc caactcgtct gccagctctg gtcgctacac tggtgagggc   360
gagagcgatg atgccaagaa aggcatgttc cagaagggct acacctacta atgtg       415
  
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<210> 12133  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C1

<400> 12133

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cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcccttcttc ccccatacct   180
ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattggt caaccctaca ggatccaaca   240
ggcaatcgca acaggcatct taccattatc acccttggtc ctccaacaac cgtcagccct   300
attacaagag ttaccttttg tccatttggt ggcacaaaac atcagggcac aacaactaca   360
acaacttggt ctagcaaacc ttgctgcata ctctcagcaa catcagtttc ttccattcaa   420
ccaactggc                                     429
  
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<210> 12134  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-017-Q1-K1-C10

<400> 12134

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gaccttcaac tcctaccatt gatcgtggga tagcattaca taagatgatt agacttatca 180  
caatgggttt aggaggagag ggctatctta atttcattgg aaatgagttt ggacatcctg 240  
aatggataga tttccaaga ggtccgcaa gacttccaag tggtaagttt attccaggga 300  
ataacaacag ttatgacaaa tgctgctgaa gatttgacct gngtgatgca tactatctta 360  
ggtatcatgg tatgcaagag tttgatcagg caatgcaaca tcttgagcaa aaatatgaat 420  
tcatgacatc tgatc 435

<210> 12135  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C11

<400> 12135

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ggaagcttcc aggtgacggc gcaggacgtg tccacgatgc tccggtgctg gcagaagagc 180  
atcatcttcc tcatcaaaa cggcggctac accatcgagg tggagatcca cgatggcccc 240  
tacaacgtga tcaagaactg ggactacacg ggcttggtca acgcatcca taactccgag 300  
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gcg 363

<210> 12136  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C12

<400> 12136

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caccctcgag gtggagagca gcgacaccgt cgacaacgtc aaggccaaaa tccaggacaa 180

ggaagggatt cccccagatc aacagcgact gatattcgct ggcaagcagc tggaggatgg 240

acgcacgctg gctgactaca acatccaaaa ggagtcaact cttcatttgg tccttaggct 300

gaggggtgga accatgatca aggtcaaaac tcttactgtt atagagatcg attatgactt 360

ttatcttact tgatttatctt actgatcatt ggattctttt taatataatg tttgttatctt 420

ttctttatctt tatattttttt 440

<210> 12137

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H2

<400> 12137

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actgtctacc tcaatggcta ccatgggtgat acatctgcta catttctttg cggatgatggt 120

gatgacgaag ctaagaaatt agttaagggtg acaagagaat gtctcgacaa ggctatatcg 180

atttggtcac ctgggggtgga gatcatacaa agtggttagaa ctatacagga tcatgcagac 240

aagtttaagt ttggtgtagt tagacagttt gttggccatg ggggttgcaa agttattcat 300

gctgaacctg ttgagcatta tttcagaaac aatgaagggg gacgtatgat gttgaatcaa 360

acatttacta t 371

<210> 12138

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H3

<400> 12138

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gtccttggt ctttctgcaa gtgctgtac cgcaaccatt ttcccacaat gtcacaagc 120  
 tectatagct tectttcttc cccatacct ctcaccagcg gtgtcttcag tatgtgaaaa 180  
 cccaattctt caaccctaca ggatccaaca ggcaatcgca gcaggcatct tacctttatc 240  
 acccttggtc ctccaacaac cgtcagccct attacagcag ttacctttgg tgcatttggt 300  
 ggcacaaaac atcaaggcac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360  
 ctctcagcaa cagcagtttc ttccattcaa ccaactggct gcattggact ctgctgctta 420  
 ttgcaacaa caactacca 439

<210> 12139

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H4

<400> 12139

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aaaaaaaaa aggaaaagat actaaaatac aat 93

<210> 12140

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H5

<400> 12140

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ccaagaggc cttcagacaa gccctgcgt ctgcccctcc aggatgtgta caagattggt 120

ggtattggaa ctgtaccggt tggtcgtgtg gagactggtg tcatcaagcc tggatatggtt 180

gtcacctttg gtccaactgg cctgactacc taagtgaagt ctgtttagat gcaccacgag 240

gcgcttcacg aggctcttcc gggtgacaat gttggcttca actggaagaa cgtgtctgtc 300

aatgatctca agcgtggggt tgaggccttc aactgcaagg atgaccctga caaggatgct 360

gtcagctata ccttccaggt cataatcatg aaccaacctg ggtcatattg gcaactgcta 420

tgccc 425

<210> 12141  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-A11  
  
 <400> 12141  
  
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 tcacaagctc ctataacttc atttcttccc caaaaccctt taccagccct atcttaataa 180  
 tgtgaaaacc catttctaca accctacatg atccaatatg caatctgacc ttacatctta 240  
 cctttatcaa cctttgttct tca 263

<210> 12142  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-A12  
  
 <400> 12142  
  
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 aggttttctt cctgaagcca attatctatt cttaggtgat tatgttgatc gaggcaaaca 180  
 aagtttgagg actatatgcc ttcttcttgc ttacaaaatc aagtaccctg agaacttttt 240  
 tcttctgagg ggcaatcatg aatgcgcctc aataaacaga atatatggat tctatgatga 300  
 atgcaagcgt cgatttaatg tgcggctatg gaaggtcttc acagaatgtt ttaacacttt 360  
 acctgtggct gctcttatcg atgattaaat attatgt 397

<210> 12143  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-017-Q1-K1-A3  
  
 <400> 12143

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 tacgctatct gccatggctc aagagctcca cgaaacgtcc tcttgctctg ccaccaccac 120  
 ctctgctgtc accacatcct gctgctcgtc cactgtcaca gactcgtcct cttcgcccc 180  
 gtcaccggcg gcggccaatg ccgcgcccg cgcacggaag cggcaggcgt tggaggccga 240  
 ggccgaggcc gaggcggcg gtgaggagga ggaggaggag gaggaaggct gtgctggtaa 300  
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<210> 12144

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A4

<400> 12144

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 cattattcca caatgctcac ttgctcctag ttccattatt ccacagttcc tcccaccagt 180  
 tacttcaatg gccttcgaac acccagctgt gcaagcctat aggctacaac aagcgattgc 240  
 ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgg cacatctaac 300  
 aatacaaacc atcgcaacgc aacagcaaca acagttccta ccagcactga gccacctagc 360  
 catggtgaac cctgtcgcct acttgcaaca gcagctgctt gcattcaacc cacttgctct 420  
 agcaaaa 426

<210> 12145

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A6

<400> 12145

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 gtgtcagggc tctgtctgaa ggcgatgtac tggaagcctt ctccctgcgc cttggtggcg 120  
 acgaggtagc cctggggtac gatgagcagc tgccccgcac ggagcacgtc gtcgaacacc 180

gtgggtcccg tgtcgctggc gacctggacc cttgcactgc ccctgatgcc gtacatggcg 240  
ctgtgggcgt tgaagttcca gaacggcgac atgatggcgt cctggtacag gtctacccgc 300  
accgcgctca tctgtacgag gttgaggacg gtgaacttgt ggctgggtgag gcatgtgatc 360  
ct 362

<210> 12146

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A7

<400> 12146

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tttctgccat cactgagcca cctagccgtg gtgaaccctg tcacctactt gcaacagcag 120  
ctgcttgcat ccaacccact tgctctggcg aacgtagctg cataccagca acaacaacag 180  
ctgcaacagt ttatgccagt gctcagtcaa ctagccatgg tgaaccctgc cgtctaccta 240  
caactacttt catctagccc gctcgcggtg ggcaatgcac ctacgtacct acaacaacag 300  
ttgctgcaac aaattgtacc agctctgact cagctagctg tggcaaacc tgcctgctac 360  
ttacaacagt tgcttccatt caaccaactg gctgtgtcaa actttgctgc gtacctacaa 420  
cagcgac 427

<210> 12147

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A9

<400> 12147

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agctttgcag tctagttatc agtcttcaca gcaggcgatt tatcagcttc agcaacagct 120  
acaactaatg cagcagcagt ctaacctaaa tcagcaacc tctgcgcagg ttggttcac 180  
tgcagtttct tcaacatgta actggacaga gcatacctcc cctgaagggtt ttaagtacta 240  
ctacaatagc attactcgtg agagtaagtg ggagaagcct gaagagtatg tgctgtatga 300

gcaacagcag cagaaactgc ttttgettca acagcaccaa cagaatatcg ctgtacagca 360  
actgcagtca ccgccacagg gtcaatcaact tccatccatg caaccgattc aacagcttc 419

<210> 12148  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H11

<400> 12148

cccacgcgtc cgccacgcg tccgccacg cgtccgccca cgcgtccgcc gctcggtctg 60  
gggaacgcga tctgttcccc aacctccga gccgtccac cgtcctccac tccggtctgc 120  
gaatcgaccc gccccgatcc agatcaggag ctgagggatg gacgcgaaca ggcgccagag 180  
tgggatccag cagttgctgg ctgcggagca ggaggctcag caaattgtga atgccgctag 240  
agctgccaag tcagcgaggc tcaggcaagc aaaagaggag gctgagcggg aaatagccga 300  
ataccgtgcc cagatggagg ctgagtttca gaggaaggtt gcagagagca gcggcgactc 360  
cgggtgcaaac gtcaagcgtc tcgaggaaga aacggc 396

<210> 12149  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F12

<400> 12149

cacaccgttg tcacacaagt gactgtacct ttgcacacat tcggctcacc gtttgcacac 60  
tgttggtgca ccggactgtc cgggtgtgta aaactagccg ttggctgcac agcattgtca 120  
cactgatgac tcaccgtttg ctcaactgttg gctcaactgtt tgcacacaat ttgctcaccg 180  
tttgctgaca agactttcct gtgtgtcaga actagccatt gtcttcacat cgttggctca 240  
cttttttttc accattttcg caccgttata tcacattttt ctcacctttg tttgacatta 300  
ctt 303

<210> 12150  
<211> 186  
<212> DNA



<213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-F6  
 <400> 12150  
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 ccatccctag cgctcgccca gtgccaaaggc gcagccggcc atcgactcaa tcgcacttga 120  
 tgacccatga atgaacatta caagtacctt ctcaatctac tgcttatacg cgctcctgat 180  
 gtagct 186

<210> 12151  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F9  
 <400> 12151  
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 cgggttcgtg ggtgagcggg tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120  
 cggcggcctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
 cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240  
 cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaaggca tgaacggcaa 300  
 ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggaag 360  
 cggcggcggg gggtacggtg gt 382

<210> 12152  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G1  
 <400> 12152  
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 gtatTTTTAT ccatttatta ggttgataac ctgagaaatc gctgtgagct tcaagaactt 120  
 gagcttcaaa aatcagcaaa aaaagtacta gaggccatga cactggttgc cgaagaatct 180

gcaaaatcca aagctgcaaa agaagttata aaatctttaa ccgctcagct caaggatatg 240  
gctgagagat taccaccaga ccacggggcc tataatgtca atgagacaaa gcaatcacat 300  
aatccgaatg gcattgactc acatgctgct agctactcta gcatgaatgg aattcaccag 360  
acacggaatg agttgctcaa tgcttcaatt gcacatagtc tgaactctgg acgaccatcg 420  
tcgcattgca atggaa 436

<210> 12153  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G10

<400> 12153

cggacgcgtg ggtagcaaca tagaaagcac aatagtgtac caacaatggc agccaaagta 60  
tggtgcctcc ttatgctcct tggtctttct gcaagtgtcg ctacggcgac ctttttcccg 120  
caatgctcgc aagctcctat agcttccctt cttcccccg acctctcacc agcgggtgtct 180  
tcggatatgtg aaaaccaat tcttcaacct tacaggatcc aacaggcaat cgcagctggc 240  
atcttacctt tatcaccctt gttcctccaa caatcatcag ccctattaca acagttacct 300  
ttggtgcatt tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca 360  
aaccttgctg actactctca gcaacagcag tttcttccat tcaaccaaac aagttcattg 420  
aactc 425

<210> 12154  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G11

<400> 12154

cggaccctgg tgggttggtc tctcctccct ctccggttcg ggttcggggt cgtgaggttg 60  
tcccagattc ggcttcgtgg gtgagcggat cgagatggcg gcgtcagatg ttgagtaccg 120  
ctgcttcgtc ggcggcctcg cctggggcac ggacgaccac tccctccaca acgccttcag 180  
cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccg 240

cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgaaggcat 300  
gaacggcaag gaactggacg gccgcaacat caccgtcaac gagggccagt cccgctgc 358

<210> 12155  
<211> 332  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-016-Q1-K1-G12  
  
<400> 12155

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa attaaaaaaaa aaaaaattaa naaaaaaatt aataaaaaatt aaaaaattta 180  
aaataaataa aaaaaaaaaa aataaaataa aaaaatataa aaaaaaana aaattaaaaa 240  
aaaattaaat taaaaaaaaa aaaaaaattt aaaaaaatt aaaattataa aaaattttaa 300  
aaaaaaaaaa aaaataaaaa aaataattta tt 332

<210> 12156  
<211> 420  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-016-Q1-K1-G3  
  
<400> 12156

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tggctccggc cgccgccttc ctgtctgctg ggcgcgctgg ttccattccc cgtgcgcct 120  
tctgatccc gaggcctctt cttctcccaa ttccgctctc ccctgcgcgc tgggaccgct 180  
ccgcgacgtg cagcctcttt ggcgtatgcg ccaacactcg ccgtgcgcca acccttcgac 240  
ggaacgcctt cacggagacg gtggttcctt acgtgccggg ctctggcaag tacatagcgc 300  
cggactacct cgtgaagaag gtgtcagccg aagatgtgca agatctggtg agggggcaga 360  
ggaaggtgcc gctcatcggt gacttctacg cgacctggtg ccggccctgt gttcagatgg 420

<210> 12157  
<211> 351

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-H1  
  
 <400> 12157  
  
 gaggacaaca tgttcttcat ctgacacaag tttttttttt ttttttgccg gtgtcgtggc 60  
 gcaagttcgg gtcgattttg ctgtgtggca acgtcgcat ttttttatgc tgttgccctt 120  
 ttttgcttgc tggtcgtagt gccactgtgt gttgttgaag tcgctgggtt gaaactgcag 180  
 tcagttaact gtacgcgtcc tgctttgttt ttgtttgcgc gcgtgtgaaa cagacaaaca 240  
 gtctgatgat ttgggtgtgt cagggttgta aacaaacttt attagattct cactggatta 300  
 tactgcatga ctgtagtga aggaaaagaa gcaggtttga gttgtgaaga t 351

<210> 12158  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-016-Q1-K1-F11  
  
 <400> 12158  
  
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 gcgcgcaagc aacattattc aagtatgggc cttgacctct ctaagggtat cattcgcaac 120  
 aaccttgagt atggcgtgat agagccatcg atgagcaaag taaagatcat tcagtttgcc 180  
 acggaggctg ccattactat cctgaggatt gacgacatga tcaagcttac caaggaagaa 240  
 gagggtaacg aagagtaagc agcccaccag tagtgggcta gtggactccc atgggatggt 300  
 tgccatagca tgtagcactt gttttttcac ttatcgttta cttttgcttg ctgtgagcat 360  
 tcgtttgtag gaaaagttag aacggatgtg tatcaatccg tggtngtga cgatgactca 420  
 cggat 425

<210> 12159  
 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-C9

<400> 12159

ggctctgtta gcctaccatg gctgatcacc accgggggtgc gacgggaggt ggcgggggct 60

acggcgacct acagcgcggg ggcgccatgc acggcgaggc gcagcatcag cagaagcagg 120

gcgccatgat gacggcgctc aaggccgaga cggtcgcgac cttctgcggg tcgatgctgg 180

tgctgtccgg gctgatcctg gccggcaccg tgatcgcgct cacgggtggcc actcccatgc 240

tggtgatctt cagcccgggtg ctggtgccgg ccggc 275

<210> 12160

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-D10

<400> 12160

cgttcgactg ctcatcctta ccgacccaag gactgaccat cacccaatta aggagtctgg 60

gtctggggaa catccccacc attgccttct gtgatactga ctctcccatg cggtatgtcg 120

atatcggcat ccagcggaac aacaagggga ggaacagcat tggatgcctg ttctggcttt 180

tggccaggat ggttctgcag atgaggggca ctatcctccc tgggcacaag tgggaggtca 240

tggtggattt gttcttctac agggacccag aggaagcaaa ggagcaggag gaggaagctg 300

ctgttgcccc tgagtttgcc gcaatcactg attaccaagg agctgatcag tggggtggtg 360

accagtggac ctctgatgtg actgcgccgc ctgttgctcc tactgtgnct gattgggggtg 420

ctgctccaac 430

<210> 12161

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D11

<400> 12161

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gataatcaag ctggtgatat agtgatagca taccgactca ctgatccaat ctagttaaga 120

tcgaattatg atagggatta ggcgaatggt tacatgcact gtcattatcc attgaactgt 180

gatctgtttt tcatgcagaa tactgactca tttatgttta tgctcaacat actacaataa 240  
agcgagtctt gctatatcat tgttaaatgc acgttcatat 280

<210> 12162  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D2

<400> 12162

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ccgcaaaata gctttgttgt ttctaaaagc gaagaataca ttgccgggta tgtcaacggc 120  
ttttactcga ggaccacctt gtcagttata caagtctaag gcagtccttt cactatgttg 180  
gtcttgattt atctacgacg tcgatactga ttacagattg ttttgtattg tattttacga 240  
caattggatt ttatttgttt c 261

<210> 12163  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D3

<400> 12163

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agagaaacaa ctcgatcgat cgatcaagaa gaccggcgag gctctagctc cagaccgaca 120  
atgccgtacg cagccacaag gacgtcgccg cagcagcaca gccgcgtggc cagcaacggg 180  
agggccgtgg cggcgtgcgc aggccacgcg ggcgtgccgg acgaggtggc gcggcaccac 240  
gaagcacgcg gtggccgcgg ggcagtgtgt ctctgtgatg gtgcagtcca tcgcggcgcc 300  
ggcggacgcg gtgtggtcgc tgggtgcgcc cttcgaccag ccgcaggggt acaagcgctt 360  
catcaggagc tgccacctgg tggacggcga cggcgtcgag gtgggg 406

<210> 12164  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D4

<400> 12164

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tgctttacct gcacctcctg caatgcattc acaacagctg gctacaccaa cacagccatc 120  
gtcttcaact gctaggaaag cagtaccccc agtcacctaaa ggcaaaaaga cgaaaccagg 180  
tcagaaggta ccagggtggct ctgcagccaa gcctatgcca tcttcagcag gtcctagtgg 240  
aagaggacca cacatgaata ggaattttcc aggtgggttct gtcctgaag ctcaagctca 300  
gaatgtcgat ccattgggtg gtcgtaaagt gatgagccgg tggcctgaag ataatagttt 360  
ttatgaagca aatatatctg attataatgc tggaacgggc cttta 405

<210> 12165

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E1

<400> 12165

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ggccaaccga cacgtggata acctggacgt ggtcgatagg ctcatcgacg atgcggaggc 120  
tcagtacagg aacttccagc accccgatcc ctacattgtt ccatgggcac caggcggcac 180  
taaattcaca agaaaccccc ctccacctca agggatcgag atcatctaca attatggcaa 240  
ggaggaccag taaacaagag tcctgcaagc ggggggcaga acttccacag ttccaaatca 300  
cttctgtttt aatcgagttg ttgtacgaga aataagaatg gaaattactg gactccatcc 360  
atgcttctca tttgcttggt ctgataatca tgtgctcttc atctagtgca tattgaagtc 420  
atgtttcctg gcataaaaat ggaact 446

<210> 12166

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E10

<400> 12166

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gaagagcagt tagtacaatc cttgagggag ttacttcttg caagcaaaca gctcccagat 120  
aagtttgatg actactatgt ccttctacgg tatgcccatt ttatttattt tctggaaaat 180  
ttatgttata tattgtcctt agactgacat aatccacca agtaacaggg gaagagatgt 240  
tttattcttc agtacttcta ggatgcctgt ttccttccag ttttgcactg aagagatcat 300  
gacctcattg ttctctggtc ttgcagctat cttaaa 336

<210> 12167

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E11

<400> 12167

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cggcctacct gcttgctgtc ctcgctggga acgccagccc ctccgctgac gatttgactg 120  
ccattctgga gtcagttggc tgtgaagttg acaatgaaaa gatggaactc ctgctgtccc 180  
aactgagcgg taaggacatc accgagctca ttgccgcggg cagggagaag tttgcttcag 240  
tcccatgtgg tggcggcggg gtcgctgttg cggcagctgc acctgctgct ggcggagctg 300  
ctcctgcagc tgaagcaaag aaagaagaga aggtggaaga gaaggaagaa agcgatgatg 360  
atatgggctt cagcctcttc gactaggctg cacagtcatc acagtattgt tttgggcatt 420  
g 421

<210> 12168

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E2

<400> 12168

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ggccctccga gacgtggata ctgtgtcgct aacgcgacgc tcattgacca tggctcacac 120  
gctcccatga cctcccagca cccgcatac ctacacatga acaagagcac caggctgcgc 180



taaccaaca cgacaacat atacgcctca acgagccgtc accatatgca acaatcgcaa 240  
 agcggaccag ttgacacaac aactgccagc cctatgcata acgcacacag tggcacataa 300  
 catcatggca catcaact 318

<210> 12169  
 <211> 175  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-016-Q1-K1-E5  
 <400> 12169

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 cgcgggcgcg cgntcgctg cggtcggcg ttggtgcctt gcgggtggcg gtggtctgcg 120  
 gcggcgcgct cctcctggtg ccccgccctg gtgtgcctgt ggctcgcgct cgccg 175

<210> 12170  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-E9  
 <400> 12170

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 ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 120  
 agggccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacggtggt ggccgtggag 180  
 gcggcggtta cggcggtggc gggcgccgtg atggcggtgg cggctacggc ggtggcgggc 240  
 gctacggtgg cggcggcggc tactgtggtg gtggcgggcg ctacagcggg ggcaaccgtg 300  
 gcggcggtta ctgcaactcc gacgggaact ggaggaactg atcggtgggg cccgcgcggc 360  
 caaattatcc tggtcgctac cgtgatgttt accct 395

<210> 12171  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F1

<400> 12171

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acaatggcctt ccaagacatt atccctcctt gcgcttcttg ccctttttgt gagtgcaaca 120  
aatgcgttca ttattccaca atgctcactt gctccgagtg ccattattcc acagttcctc 180  
cctccagtta cttcaatggg cttcgaacac ccagctgtgc aagcctatag gctacaacaa 240  
gcgcttgccg cgagcgtctt agaacaacca attgccaat tacaacaaca atccttggca 300  
catctaacca taaaaccat cgcaacgcag cagcaacaag cactgagcca cctagccgtg 360  
gtgaacccta tcgctactt gcaacaacag ctgcttgcac ccaaccact tgctttggca 420  
aacgtagctg cataccaaca acaacaacag ttgcaaca 458

<210> 12172

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F10

<400> 12172

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cttacgcgcg ccgatgccga tgccgcttcg tcgtcgtcgt cgtatttttc ctctcccggt 120  
gcccctgcta gtaatgctgc tgtggccacg gcgcggggcg acgacgagga tatcgacatc 180  
gtcgccattg tcaccggctg ctgcctcgcc tccgaggaag aatctaaggc tgccggcggc 240  
ggcgactacc cgcaacttga cctcaacctc atcatggaca tcgtgaggat gaactagata 300  
gctacaaatt aaagatatac ctgccagtgc at 332

<210> 12173

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C6

<400> 12173

tccgggctag acgtacgcgt acgcactctc ttacgatggc atgtgtaatg tcgagaagga 60

tat t t t t g t t g c a a t g c g t g c g g g a a a a a g g g a g t g c g t a g a g g c t c a g c t g a a c c t g a a t 120  
c a g a t a t t g t g c a g g c t t g c a g a a g c t t t c t a g a t c a a c a g c a g t g c a t t a a t g t g t g g c 180  
g a t t t a t c t a a a c t a t c a a c g a g a g a a a a g a c t t g 215

<210> 12174

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A9

<400> 12174

g c c g g g c c g g a t c c a g c g c c g g c c c c t a c c t c g c g t c t c c g t c c a c c a t c g c g g g c g a c 60  
g a c g c g c c g c g t a g g a c c a a g g g c c g c g g c t t c c g c g a g g a c c c c a a c t c c t c t g c g c c c 120  
c g c g a t t c g c g c t t t g g c g c g g g g g a c g c g c g a c c t c g a c t c g c t c g g c g g c c c g g g a 180  
c c c a t c c a a t c a a t t g a a g g a t g g a t t g t g t g g t c a c t g g a g t t c a t g a a g a a g c t c a a 240  
g a a g a t g a c c t c c a a a a t g c t t t c c a a g a a t t t g g g c a g g t c a a a a a c c t g c a t t t g a a t 300  
t t g g a c c g t c g t a c c g g a t t t g t c a a g g g g t a c g c t t t g a t t g a a t a t g a a a a g t t g a a 360  
g a a a c t c a t g c t g c a a t a a a a g a a c t g g a t 390

<210> 12175

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B10

<400> 12175

g t c c g c a g a a g g a t g a t g a t g a c t t c t g g t g a g g c t g t c a a g t a c a a g a g c t c a t t g t a c 60  
g c g a t t c c a g c a g a t c c t t a a g a a g g a a g g c c c c a a g t c c c t g t t c a a g g g t g c t g g t g c 120  
t a a c a t t c t t c g t g c c a t t g c t g g c g c t g g t g t g c t t t c t g g t a c g a c c a g c t c c a g a t 180  
c c t c t t c t t c g g a a a g a a g t a c g g c t c c g g c g g t g c t t a a a t g g a g a a a a a t g a t g a c g a 240  
a c a a g a g c a g t t c g c t c c c g g t c c a g c c c a g t c a g g a t c t g g t c a a g t t t t t g c c t t t c a 300  
t a t c g a a g a a a t t a a t a a t t a t g t a g g a g a a t t t t t c c a a c a t t c g t t t t g g g c g g a g a 360  
c a t t g a t c t c a a a a c a c t c g t a a c t g t c c t a c t a g g t g g t g g c a t g g g t c c c a a a a c a t 420

<210> 12176  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B11

<400> 12176

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agctttgtgc aagcgccact agtgctacgc atattccagg cacttgccac caggattgca 60
ttgtgtacca tgaacccatg catgcagtac tgcgatgatgc aacaggggct tgccagcttg 120
atggcggtgc cgtccctgat gctgcagcaa ctgttggcct taccgcttca gacgatgcca 180
gtgatgatgc cacagatgat gacgcctaac atgatgtcac cattgatgat gccgagcatg 240
atgtcaccaa tgggtcttgcc gagcatgatg tcgcaaata tgatgccaca atgtcactgc 300
gacgccgtct cgcagattat gctgcaacag cagttaccat tcatgttcaa cccaatggcc 360
atgacgattc caccatggt cttacagcaa ccctt 395
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<210> 12177  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B12

<400> 12177

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cggacgcgtg ggttgccgtc tcccttttgc gtgagcaaag aaagagagcg agaagagcag 60
tcgccatgtc tggcatcatc cacaagatcg aggagaagct ccacatgggg ggccgaccaca 120
agaataagga ggaggagcac cacaagaagg ccgaggagca ccacaagaag gaggaggggg 180
agcaccacaa gaaggacggc ggggagcaca aggaaggcat cgtggagaag atcaaggaca 240
agatcaccgg cgagcacggc gacaagtccg gcgaccacaa ggaaaagaag gacaagaaaa 300
agaagaagca cggcgagggc cagcaccacg acggcgccca cagtagcagc agcagcgaca 360
gcgactgaga tctggtgtcg cagcacaggt gcaacacatg tatgc 405
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<210> 12178  
 <211> 437  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B2

<400> 12178

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tgctagccta ccatggctga tcaccaccgg ggtgcgacgg gaggtggcgg gggctacggc 120  
gacctccagc gcggggggcgg catgcacggc gaggcgcagc agcagcagaa gcagggcgcc 180  
atgatgacgg cgctcaaggc cgcgacggcc ggcaccttcg gcgggtcgat gctggtgctg 240  
tccgggctga tcctggccgg caccgtgata gcgctcacgg tggccacccc cgtgctggtg 300  
atcttcagcc cgggtgctggt gccggccgcc atcgcgctgg cgctcatggc ggccgggttc 360  
gtcaccttcg gcggcctcgg cgtcgctgcy ctgtccgtgt tctcctggat gtacaagtac 420  
ctgacgggca agcacc 437

<210> 12179

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B7

<400> 12179

cccacgcgtc cgcggacgcg tgggtttgca tttaaggact acttcaagag gtggttgagc 60  
ttcaagaagg atagggatgg ctattggaag tgggttgctg gcaacctggc ctctggtggt 120  
gctgctggtg cttcctcttt gttttttgtg tactccctgg actacgcgag aacaaggttg 180  
gctaattgacg ctaaggctgc caagggatga ggtgaaaggc agttcaatgg gcttggcgat 240  
gtctaccgca agacactcaa gtctgatggt attgctgggc tataccgtgg atttaacatc 300  
tgctgtgttg aaatcattga ttatcgtggt cagtactttg ggctctatga ttccatcaag 360  
ccagttgtac ttactggcaa cctccaggac aatttctttg ccagtttcgc tctggggttg 420  
ctgatcacta at 432

<210> 12180

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B9

<400> 12180

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tggcctcctt atgctccttg gtctttctgc aagtgtgct accgcgacca ttttcccgca 120  
atgctcacia gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtcttc 180  
ggtatgtgaa aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat 240  
cttaccttta tcacccttg tctccaaca atcatcagcc ctattacagc agttaccttt 300  
ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgctgcc tactctcagc aacagcagtt tc 392

<210> 12181

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C1

<400> 12181

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ttcaaccaac tgtctacact gaaccctgct gcttatttgc agcaacaact attaccattc 120  
agccagctag ctactgccta ctctcagcaa caacaacttc ttccatttaa ccaattggcc 180  
gcactgaacc ccgctgctta ttgacagcag caaatactac taccatttag ccagctagct 240  
gcagcaaacc gtgcttcctt cttgacacag caacagttgc tgcttttcta ccagcagttt 300  
gcggctaacc ccgcaaccct cttacaacta caacaattgt tgccctttgt ccaacttgct 360  
ttgacagacc cagcggcctt ctaccaaaaa cacatcattg gtggtgccct ctttt 415

<210> 12182

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-016-Q1-K1-C11

<400> 12182

gccagttaac ttccaattac tggggtttcc acgtttaagg ttgctcctat gaaggctgca 60

agtaacttca ataagatcca atgtttctgc tttgaggagc aaacacttct tcctggagaa 120  
 cagattgaca tgccagtatt cttctatata gatcctgagt ttgagacaga ccccaaaatg 180  
 gacgngtga acaatatcgt tctttcgtat acattcttca aggtgaacga tagttaggaa 240  
 acgtgccaac agcattgttg tattaggaaa acaacacttg aacaatccat atgcagatat 300  
 gctgcggaat agcatctcat gtaacaccaa gagttttttt tggtagttag ctcacgttag 360  
 tctgtggaga attttgcaaa aaaaaaaaaa aaaaaaaaaa aaactagaaa aaaagggcgg 420

<210> 12183  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C12

<400> 12183

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 acgtacgtcc caagctgtcc ggcattggacc aggttcaagc cggcagtcct tacggcgcca 120  
 gcacattcga cgccgacagc ttcgaggtgg ccgaacgagg tggagctgga gcacgccttt 180  
 caccagggga agtacttctc aggcattgcc atacagctca agggttcaac ctgatctaca 240  
 catataccct tgacggatat catataagac acttattaca gattcgtctt acccatcaat 300  
 agatcgggtct gatctctcgt ggtgtctgga tgttgtgtgg ctacgtggaa ctttcatgct 360  
 acggtgactt tgaatgtaac tggaatttgg aatattcgtt gtttaatgca atttcgatga 420  
 tttgctcaaa t 431

<210> 12184  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C2

<400> 12184

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 gcttgcatca aaccacttg ctctggcaaa cgtagttgca aaccagccac aacaacagct 120  
 gcaacagttt ctgccagcgc tcagtcaact agccatggtg aaccctgccg cctacctaca 180

acagcaacaa ctgctttcat ctagcccgct cgctgtggcc aatgcaccta catacctgca 240  
acaacaattg ttgcaacaga ttgtaccagc tctgactcag ctagttgtgg caaacctgc 300  
tgcctacttg caacagctgc ttccattcaa ccaactgact atgtcgaact ctgctgcgta 360  
cctacaacag cgacaacagt tacttaatcc actagcagtg gctaaccat tggtc 415

<210> 12185  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C4

<400> 12185

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acttttagaaa gggagtagct ggaggctcag ctgaacctga atcagatatt gtgcaggctt 120  
gcagaagctt tctagatcaa cagcagtgca ttaatgtgtg gcgatttatt taaactatca 180  
acgagagaaa agacttgaca gagaacctga agcagctaca gtgcaggaca ctaatttttg 240  
ttggtgagaa ttcccagttc catgctgaag ttgtgcacat gactgcaaag cttgataggc 300  
gatatagcgc tcttgtggag gtacaagctt gtggctcggg tgtgacagaa aagcaaccac 360  
acgcaatgct gataccaatg gagtactttc tcatgggata tggactgtat aggccaagac 420  
agataaacta tagccctcgt 440

<210> 12186  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A8

<400> 12186

cccacgcgtt cgccacgcg tccgcccacg cgtccgcca cgcgttcgcc caggcgtggg 60  
cccacgcgtc cgcgacgcg tgggaagaag atagacggat cctcccgtg aacgaacatg 120  
tcgccaagag agtggatcca cgacggagac tacaccccg taatcgtggt catgattttc 180  
attgtgctgc tcacagtcgc gttcgtgctt ttctccatt attgctttgg gtaccgtatc 240  
gttcatgctc actggatatg actttgaatg ctatgtgatg ctcaagtatc tcatttgcgt 300



tgacagtgtc ctttccaagc gggcacatca tgatataaag aattcaaacc cttatgaggt 360  
t 361

<210> 12187  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H2

<400> 12187

cggacgcgtg ggttttagca accggttcct gaagtctggt gttcaaaagg ctggtaggaa 60  
aacgagatac gagagagctg gaaatgagca atttgtgaca gagacaagca aatgggtctt 120  
ccatgagagg gggcacctta aggctgttaa tgtaagcac cacaaggttg gggagaccaa 180  
tgaaccaggc atgtaccgca ttaacgatga cctggaatac tctgttgaga tctatgaatg 240  
gtctggaaca agctggaagc catatgttgc tgatgatgtg caactccagt ttttcatgat 300  
gagtccttat gttctgaaaa ctatgtcgaa tgacaacaag ggtttatact caacatcctt 360  
caaagttcct gatgtctacg gagttttcca gttcaaagtt gagtaccaga ggctgggata 420  
tact 424

<210> 12188  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H3

<400> 12188

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ggggctctcc ctgctacgcg taaccaaggt caccggcggg gctcccaaca agctctccaa 120  
gatcaagggt gtgcgcacct ccatcgcgcg cgtgctgacc gtcattctcg agaagcagaa 180  
gtcggcgctg cgtgaggcgt acaagaagaa gaagctgctc ccgctcgacc tccgccccaa 240  
gaagacccgc gccatccgca agcgcctcac caagcaccag ctcttcttga agaccgagaa 300  
ggaaaagaag cgcgagaaag tatttcccat gaagaagtac gctatcaagg cctagatcag 360  
tgaaagaaca tttatcctgt c 381

<210> 12189  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H4

<400> 12189

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ggtggagttc ttaagctcga actcttttta cctgaggaat atccaatggc tgcccaaaag 120  
gttaggtttc tgacaaagat ttatcatccc aacatcgaca agcttggtag gatatgcctc 180  
gacattctca aggacaaatg gagcccagca cttcagattc gaacagttct tttgagtata 240  
caggctctac tgagtgcgcc aaatccagac gaccctcttt cggataacat tgcaaagcac 300  
tggaagcca atgaagtaga agctgtcgaa acagctaagg agtggactcg cctgtatgcg 360  
agcgggtgat gagaacgcag tgatgttctt gatgtaataa cccatcatac ttcagtcctc 420  
atctattgcc atttgcttga ta 442

<210> 12190  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H5

<400> 12190

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ggaagagaag tgcgttctg ctgccatttg ttttgtatca ttccttcag acatccttga 120  
ttcaaaggca gaaggaagaa acaagtacct tgagctcctg ctctctgtag ctgagaagtt 180  
taaaaagagt ccatacagtt ttgtctggac agctgctggc aagcaagcta atctcgagaa 240  
ccaggttggt gtgggcggct acggctatcc cgccatggta gctctcaacg tgaagaaagg 300  
tgcatacgct cactccgta gtgccttcca gcgcgacgaa atcatcgagt tcgtgaagga 360  
ggcaaggcgt ggtggaaagg gaaaccttcc tctgaacgat gcacctacag tagtcgcgtc 420  
cgaaccgtgg gacggcaaa 439

<210> 12191  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H7

<400> 12191

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agcaacaacc taacaacaat ggctaccaag atattatccc tctttgcgct tctttgcgctt 120  
tttgcgagcg caacaaatgc gtccattatt ccacaatgct cacttgctcc tagttccatt 180  
attccacagt tcttcccacc agttacttca atggccttcg aacaccagc tgtgcaagcc 240  
tataggctac aacaagcgat tgcggcgagc gtcttacaac aaccaattgc ccaattgcaa 300  
caacaatcct tggcacatct aacaatacaa accatcgcaa cgcaacagca acaacagttc 360  
ctaccagcac tgagccacct agccatggtg aaccctgtcg cctacttgca acagcagctg 420  
cttgcaccca acccacttgc tct 443

<210> 12192  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H8

<400> 12192

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tgcaagtgtc gctaccgcaa ccattttccc acaatgctca caagctccta tagcttcctt 180  
tcttccccca tacctctcac cagcgggtgc ttcagtatgt gaaaacccaa ttcttcaacc 240  
ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt tgttcctcca 300  
acaaccgtca gccctattac agcagttacc tttggtgcat ttgttggcac aaaacatcaa 360  
ggcacaacaa ctacaacaac ttgtgctagg aaaccttgct gcctactctc agcaacagca 420  
gtttcttcca ttc 433

<210> 12193  
<211> 430

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-H9  
 <400> 12193

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ttgattagga aatatggtta tccctccacc agctagggct cctgcaatca ccaagttcct 180
caagccgtat attttgaaga tgcatttcac aaacagtttc gtgagcgctc aggtcatcca 240
cacaccgaca gccacggtcg catgctctgc aagctctcag gagaaactcc tgaggccaag 300
catggagtcg acacgggatg ttgctgcggc tgcaaagatt gggaagttgc ttggagagcg 360
ctngctgttc aagggtatcc ctgcagtatc tgtctccatg tcaagagacc agaagtacca 420
tggaaggtc 430

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<210> 12194  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-A1  
 <400> 12194

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ctgcttcgtc ggcggcctcg cctgggccac ggacgaccac tccctccaca acgccttcag 180
cacctacggc gaggtcctcg agtccaagat catcctcgat cgggagacgc agaggtcccc 240
cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat 300
gaacggcaag gagctggacg gccgcaacat caccgtcaac gagggccagt cccgctgcgg 360
ccgtgg 366

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<210> 12195  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A10

<400> 12195

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tgcgttttgt ttacagaagt gcgggtttttt acatttgcac ttatacgcgt attttgcagt 180  
catgtaatgt aattgaaggg gtaagtgatt tttttagttc ctcttgtecc ccctaggaac 240  
atgttggacc tctgtaaatt gttcgtttga actttgaaat gtacatcggc tgtgttctgc 300  
caaaaaaat aaaaaatata aataatataa ttataatata atttataaat aatttaattt 360  
aatattatat ttttttttat tttatatttt tatattttat gatatt 406

<210> 12196

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A12

<400> 12196

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cgagagcacc ccgtcttccc gctactcccc caagggcgct cgtcgttcc ttctccgggg 120  
cgtggcaggg accttctggt agagcgagag cgagagcagc gccgccggca gttcgcgcta 180  
tggcgtecca gcaggtgttc cgggctcagc agcagcagca gcagcagttc ccggctcagc 240  
agcaggagtc ccagccgggg aaggagcacg cgatggaccc ccggcccag gagcatcgcc 300  
aggactacaa ggccgccaac aagctcaagg acaaggtggc gctcgtgacc ggcggcgact 360  
ccggcatcgg gcgcgccgtg tgcctgtgct tcgcg 395

<210> 12197

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A2

<400> 12197

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catcttgctt gtgtacgatg tcacagacga gtcacatcttc aataacataa gaaattggat 120  
cagaaacatt gagcaacatg cttcggataa cgtgaacaaa attctggtgg ggaataaagc 180  
tgatatggat gaaagcaaac gggctgagcc cacttcgaag gggcaagctc tcgctgacga 240  
atacgggata aagttttttg aaacgagtgc aaaaacaaac ctgaatgtcg agcaggtttt 300  
cttttccata gcaagggaca tcaaacagag actgtcggag accgattcca agcctgaaga 360  
tcgaactatc aagatcaagg ctgaagggga agct 394

<210> 12198

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A3

<400> 12198

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gcaatggtgt tgctgcagca gcattggagc aagatgcac ctcatttgat gtccttgaca 180  
agcatacgaa tgtccccaac agtggagaaa aagtcagcga agggcaaagt acagattgca 240  
acgccggaaa gagcagtgtc tcggtctctg cttctgggtc ctcagagccc cttgcaccaa 300  
cacagatggt gaatggacaa cctgcttcgg tagactcca gaaagtgacc cagaatg 357

<210> 12199

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-A4

<400> 12199

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gcacttcatt gtcgagattg ctgtgtgtgt aacgtttcca tatagaccag ttcagcagct 120  
tgtgtccaca atcataacca gagcagttgc agctttctca gcaaggggtg ttgatccaca 180  
aagtgttctt cctgaggaca gttggtttgt ctacac 216

<210> 12200

<211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-A6  
  
 <400> 12200  
  
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 tcaactatat atcaatctcg tcgccggcag ctctggcatg tttgagtatg tgttgcttct 180  
 ctgtgggtgcc ggcgacgatg gctgctagta ctgttaatgt gatcgggtct ccttgaacaa 240  
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 cg 302

<210> 12201  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-A7  
  
 <400> 12201  
  
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 atcacccctg ttctccaac aaccgtcagc cctattacag cagttacctt tgggtgcattt 180  
 gttggcacia aacatcaagg cacaacaact acaacaactt gtgctaggaa accttgctgc 240  
 ctactctcag caacagcagt ttcttccatt caaccaactg gctgcattga actctgctgc 300  
 ttatttgcaa caacaactac cattcagtca gctagctgct gcctaccccc agcaatttct 360  
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<210> 12202  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12202

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 tgcagcgcgt gcgctgctgg gagtacaggc agcagccgtc catcgccgc ctcaccaggc 180  
 ccacccgccc cgacaaggcc cgtcgtctcg gctacaaggc caagcaggga tatgttgtct 240  
 accgtgtccg tgtgaagcgt ggtggcagga agaggcctgt gcccaagggt attgtctatg 300  
 gcaagcccaa gcaccagggt atcacccaac tcaagttcca gaggaacaag aggtctgtcg 360  
 ctgaggagag agctggacgt aagcttggtg gactgagggt tcttaactcc tactgggtga 420  
 atgaggatag tacctacaag tatttngaga tcatcc 456

<210> 12203  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-F8  
 <400> 12203

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 ctcaactttg agtatctggt ctcacgcaag aagtatgtga tttcaataga tgacaattgc 120  
 ctaccagcta acgacactga tgtgtcgact gttgatgtat ctgcacagca catgtccaat 180  
 ctgaaatcac gtgctacaca tttctttttc aacacactct atgatccata caggaaagggt 240  
 gctgactttg tccgttggtt cacattcagc ctgtgcgagg tggttgagtg catgc 295

<210> 12204  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-G10  
 <400> 12204

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 ggtgccatga tatccaacct tgcatttggt ttccgcaaca tcttctcgaa gaggggcatg 180  
 aaggggaagt ccgtcagtg catgaattac tacgcttgcc tgtcaattat gtccttggtc 240



atactgactc catttgcctat agctatggaa ggcctcaaa tgtgggctgc tggttggcaa 300  
aaggctcttg cagaagttgg acccaatgtt gtctgggtga ttgctgcaca gagcgtgttc 360  
taccacttat ataaccaggt gtcctacatg tctctcgatc agatttctcc attgacattc 420  
agcattggca atacaatga 439

<210> 12205  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G11

<400> 12205

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ggctcttgcct cttaccccat tgatactgtc cgcagaagga tgatgatgac ttctgggtgag 180  
gctgtcaagt acaagagctc attggacgca ttccagcaga tccttaagaa ggaaggcccc 240  
aagtcctctgt tcaaggggtc tgggtgctaac attcttctgt ccattgctgg cgctgggtgtg 300  
ctttctggct acgaccagct ccagatcctc ttcttcggaa agaagtacgg ctccggcggt 360  
gcttaaattg agaaaaatga tgacgaacaa gagcagttcg ctcccggtcc agcccagtca 420  
ggatctggtc aagtttt 437

<210> 12206  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G12

<400> 12206

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aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatgacg aaacctaata aaaaaaaat 240  
aatattaaaa acaattataa aaaaataaat atatataaaa atacaccaa aaaaaaaat 300

atatccaata gttaaaaaat cactaatttt aaaaaaaact attaatTTaa aaaaaaataa 360  
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<210> 12207  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G3

<400> 12207

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 aaaagggcgc gggcggggcg aaggggccgc ggccgaggaa gaaagtcgtg acgaggtccg 180  
 tcaaagccgg gctgcagttc cccgtcggcc gcatcgggcg gtatctgaag aaggggccggt 240  
 acgcgcaacg cgtcgcacg ggcgcccccg tctacctggc gcgcgtcctc gagtacctgg 300  
 cccgcgaggt gctggagcct ggccgcaacg ctgccaaagga caacaagaag acccgcatca 360  
 tcccgcgcca cgtgctcctg gccatccgca acgacgagga gctcggcaag ctgctgtccg 420  
 gcgtcaccat cgcccacggc ggcg 444

<210> 12208  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G4

<400> 12208

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 tatgccaaac aggtgcccaa gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180  
 ggcgtgggca agtccgggaa gccgctccac tacaagggtt ccaccttcca ccgcgtcatc 240  
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300  
 atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360  
 ctctccatgg ccaacgccgg gcccaacacc aacggctcct agttctgcat ctgcaccgtc 420

tcgacctctt ggctcgac

438

<210> 12209  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G6

<400> 12209

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaaaa 120  
aaaaaaagga ggatcaaggt aaaggaacca aaaaaaggaa cgaaaaaaat aaaagaaaaa 180  
agtcacaaaa atgaaatcca taggaccaat gattaaaaac gtagttgaag ggaaaaacaa 240  
tgggaaaacc caagtaaaac cccatgtaaa acaggcaaat ttaaacagct ggtaaaatag 300  
cgaagaggcc agaaaaaagg cctttaccaa acaggggaaa aaccaaagg gcaaatggaa 360  
cgggcattgg aaaggccttt aaagcgcgga ataagaagg gaaacgccca gggtaaccgc 420  
aacagtggcc agtgcttttag cgc 443

<210> 12210  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G7

<400> 12210

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tgacaatgtc aaggccaaga tccaggacaa ggagggcatc ccaccggacc agcagcgcct 180  
catcttcgcc ggcaagcagc tggaggatgg cgcaccctg gcggattaca acatccagaa 240  
ggagagcact ctccacctgg tgctccgtct caggggtggc atgcagattt ttgtgaagac 300  
attgactggc aagactatca ccttggaggt ggagagctct gacaccattg acaatgtgaa 360  
ggccaagatc caggacaagg agggcattcc cccagaccaa cagcgtctga tctttgcggg 420  
caagcagctg gaggat 436

<210> 12211  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G8

<400> 12211

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ggcgggcgcg gcgggcgcg cgggccggtg gcggttggct ttgggaccgc gcaagccagg 180  
gcccggcttc cggggaccgc gcgggcgaag aggggagagg accatatgaa cgcgagagg 240  
aagaacgtgg ggggcgcgcg aaaagagggc cccggcgaca ctctcgccgg gggagagcgt 300  
attgcgcggg ctacactct gcgggtccta cagcgtatcg aggtgaacga cggcgtgggc 360  
atgaggttcg tgtcgttgtt cgccgagatg ttccagaaga tctggtggat c 411

<210> 12212  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G9

<400> 12212

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accgcccgcg gttcatctac cgccgcgggt gcattctgcca cctccggttc acctgccacc 180  
tctgtgcat ctcccaccgc cggteccact gccgcccgcg gtccacctgc caccgcccgt 240  
ccatgtgccg ccgcccgttc atctgccgcc gccaccatgc cactacccta ctcaaccgcc 300  
ccggcctcag cctcatcccc agccacaccc atgcccgatgc caacagccgc atccaagccc 360  
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<210> 12213  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H10

<400> 12213

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ggcttcgtac aaccagtggg tatcttggat ctgagtttca agaattctatg gactcatctt 180  
tgtctcaagt aatcgctgaa acaccaactt cagcaactga acttcgctcag catgggtttt 240  
cagaatctcc aggttctggc ttgaggcagc attttgcagc tgaaaggaaa tgggcccttg 300  
gtcttcagtc tcgagcacat tcacgagaaa taataagtga agtgcttaaa gctctgcaag 360  
aactgaatgt ttactggaaa aagattggac actacaacat gaaatgcaga tggagtcctt 420  
gctgccttga gagtatgatg ca 442

<210> 12214

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F7

<400> 12214

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ataccatatt aatatgtagt attatttcct catggtacca tgacactatt catgcgaaca 180  
accaccaatc aaactttcaa ttcatcactt acacaggata aaccttctac tgatctatct 240  
aattcttttt cttacagttt cagactataa ctcgatctta tacacaaatt ataaacacag 300  
agctatgacg atcactaact catcaatcct ttatttctcaa atcattataa ccctgtaata 360  
ccaacatgtc tcatatgatc atactataat acttactt 398

<210> 12215

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-E11

<400> 12215

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gctgctggtg gcagcctgag accaggcgcg aggatgctgg cgggtgttcag cggcgaggtg 120

gtggaggtgc cggcggagct ggtggcggcg gggagccgga cggcgtcgcc caagacgaag 180

gcgtccgagc tcgtcgcgcg ctctctgggg accagctgcc ccgccgccgt gtcctgtgcg 240

ctcgccgacc tcggccacct cgcctactcc cagccaacc aggcctcctt ccgcccaagg 300

tcgttcgctg cgaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgnng 360

cggctgagcc agcagtagcg gctgtccaag ggcgccaacg aggtgctcct ggtcatcgag 420

gcctacaagg cgc 433

<210> 12216

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-E12

<400> 12216

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aagacaatgc tggagtgatt gtgaacccaa agggagagat gaaagggttct gccatcactg 120

gaccatcgg aaaggagtgc gcggatctct ggcccaggat tgctagcgcg gcaaatgcga 180

ttgtctaaag gaagcagttt gtcaaagttc cattttaaag ggggacttga gaagggagtt 240

cttagttagg cgagctttcg attgccctga atatgtttcc ccggctaagc cttgtgctgc 300

tggaccgttt cctgatagct ttgctttgat gacatcctcc ccgttatcga taaagttgcg 360

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cat 423

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<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E8

<400> 12217

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 tacaagcggc agctgcggct gccagccacc gccgccggtt catctaccgc cgcgggtgca 180  
 tctgccacct ccggttcacc tgccacctcc tgtgcatctc ccaccgcggg tccacctgcc 240  
 gccgccggtc cacctgccac cgcgggtcca tgtgccgcg ccggttcata tgccgccgcc 300  
 accatgccac taccctactc aaccgccccg gcctcagcct catccccagc cacacccatg 360  
 cccgtgcaa cagcgcata caagcccggt ccagctgcag ggaacctgcg gcgttggcag 420  
 caccgccatc ctgggccag 439

<210> 12218  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-E9  
 <400> 12218

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 acgcggatcg gggaggacga gttggacctg ggggtggcgg agcgggtggc cgcggcgctg 360  
 cccattgtcg gaaacgacga cgcgaccaag atggttagct accagatgag gtgcaagaac 420

<210> 12219  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-F10  
 <400> 12219

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tcaaccaact gtctacactg aaccctgctg cttatttgca gcaacaacaa ctactaccat 180  
tcagccagct agctactgcc tactctcagc agcaacaatt tcttccattt aaccaattcg 240  
ccgcactgaa cccctctgct tatttccagc agcaaatact actaccattt ggccagctag 300  
ctacaacaag ccccgcttcc ttcttgacac aacaacaatt gcttccgttc taccagcagt 360  
ttgtggctaa ccncgcaacc cttttacaac tgcaacagtt gctgcccttt gtccaacttg 420  
ctttgacaaa cccagcagcc t 441

<210> 12220  
<211> 395  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-F11

<400> 12220

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atgaagttgt tggaaccgca aggggccgcc gagctgcttt tagcctcacc gagaatggat 180  
attgtgacac ggagcaccaa aactgtaaag tgggtctactg ctgctcgcat ccacagccaa 240  
agcattgcta tgccactttt atgcagtgtc gggccaattg ctacgttcat aaacgcaagt 300  
gatccatatc tgatgctgtg gttctaaaaa catcatcatt gttagcttaa acaatgtact 360  
ttacaatggt tggtaatata ataatatggn gaagt 395

<210> 12221  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-F12

<400> 12221

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cggcctccgc tacctgtctc cgcggcggag tcagagcccc ctgacgccgg cgctgtggaa 180  
 gccgaaggtc agggacccgt ggagctccgc gctccgacgc tcttctcgac tgatgacaat 240  
 cccacccccgc tccagactgc caccagtctc ctctcaccg gcgccatctc ggtcttctc 300  
 ttccgcgccc tccgccgccg cgcccgccgc gccaaaggagc tcagagtgcg gtcgagcggg 360  
 ttgaagaagc ccaacaatct caccgaggag gccctggaga ggctgagatt gatgagcgcc 420  
 tnaccgatcg a 431

<210> 12222  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F2

<400> 12222

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 gcaagcggac cctcaagctc gtgcgacgag cctctgaggc caagtgcctc aagcgcggag 180  
 tcaaagaggt agtcaagagc attcgccgcg ggaacaaagg gttgtgtgtg attgctggaa 240  
 atatttctcc tattgatgtg attacacacg ttccaatact atgtgaggaa tctaattgtc 300  
 cttacatata tgttccatca aaagaggatc ttgcgaccgc gggaaccact aagaggccaa 360  
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 ataaactga 429

<210> 12223  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F4

<400> 12223

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ggggtgggcc atcccgacaca acccgctccc gagctgccgc tggtagctga ccagccggac 240  
 ctgcggcatc gggccgcgcc tcccgtaggc ggagctgaag aggagatgct gccgggagct 300  
 ggcggacatc ccggcgtagt gccgggtgcac ggcgctgagc atcctcatgg acggcgcgat 360  
 cccgccgggc ccggacgcgc agctggaggg ccgcctagag gacctgccgg gctgcccgcg 420  
 ggaggtgcag aggggattc 439

<210> 12224  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F5

<400> 12224

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 attccagggc acttgccacc agtcatgccca ttgggtacca tgaacccatg catgcagtac 180  
 tgcgatgatgc aacaggggct tgccagcttg atggcggtgc cgtccctgat gctgcagcaa 240  
 ctgttggcct taccgcttca gacgatgccca gtgatgatgc cacagatgat gacgcctaac 300  
 atgatgtcac cattgatgat gccgagcatg atgtcaccaa tgggtcttgcc gagcatgatg 360  
 tcgcaaataa tgatgccaca atgtcactgc gacgccgtct cgcagattat gctgcaacag 420  
 cagttaccat tcatgttcaa 440

<210> 12225  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F6

<400> 12225

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 agagggtatt cgcattgttg gggatgtgct catggaggct gttcagtggc ctgggaagaa 180  
 ccagcagcaa aattccaatg cagcacttag gcagggtgaaa gcttggactg agcttttgaa 240

tgctttttgc acgagtggca gactcgaact ggaacttata cacaaagttc agacacagtg 300  
 ctatgaggat gctaagctga tgaagctgtt tccggaaatc ataagaacac tgtatgacca 360  
 agatgtccta gctgaagata ctatagtcct ttgggtccgt aaaggttcaa acccgaaggg 420  
 caggcaatct tttgtgaaa 439

<210> 12226  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E10

<400> 12226

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 cttcatctgc ccgccactgg attgtacgca acacacgaac tgtgaatcgg acggggcagc 180  
 caactggcta caggctcgta cctggttcga actgcctgcc ttgggtctctg cctgaggcga 240  
 aatttctgag gagggctggg ttcttgaagc acaacctctg ggtcactcaa tacaagcgtg 300  
 gcgagatgtt ccctggaggg gagtttccca accagaatcc tcgcatccat gagggctctgc 360  
 caacatgggt caagaatgat aggcctctgg aggaaaccga cattgttctc tggtagctgt 420  
 tcgggctc 428

<210> 12227  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C6

<400> 12227

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 cagtggagtg gtggcagcat ttacttcta tcgcattgca actggtaacc ccaaagatct 180  
 gagcagcaag aatgattcag cgaactaatg cactgggacg agtcagatgg tcagtgggac 240  
 gtagaccag aagattatgg tctgttcctt tccattttct tcatcggcct tcaattgagg 300

caaagctcgg tcctagcgctc taagatgtct gcgtgatgat acatggattc aaaagaattg 360  
 tttgcttatac tggcccactt cccgcactcc tttgttcctt tactcgtgta atatactaag 420  
 atgtcaggcc cgcttaaaca 440

<210> 12228  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C7  
 <400> 12228

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 cgcagggggcc cgacgaggac cagcccgcgc cggggaacga gttcgcgcaa ttcggcgccg 240  
 gctgcttctg gggcgtggag ctgcgttcc agcgcgtgcc gggagtcacc cgcacggagg 300  
 tcggctacag ccagggcaac atccacgata cgacctacga ggacgtctgc accggcacca 360  
 cataccacaa cgaggtcgtc cgcgtgcagt acgaccggc cgctgcaag tacgacgacc 420  
 tactcgacac cttctgggcg c 441

<210> 12229  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C8  
 <400> 12229

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 tcccggtccc ctactgttt agtggcgacg actgggcgac agtcgcgcgc gccgcccgt 180  
 agggggccgtg ccctgggtct ccattctcgg gcgcttcgcc caccagatat gagcagctgg 240  
 caattcgatt ttgaggccat tatttgataa cccgggacaa gtgcactggt acctgaccat 300  
 tttagcttgt tcagatgggt acacagttgc catgcttcac acagctcagt ccaccgtctt 360

gtagttggat aaaagatgtc gggaactgca aggctacgcc tgatagggtg gccagaagtg 420  
cccagacttt gggccactgt 440

<210> 12230  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D1

<400> 12230

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ataaaactgt tcgtggagca gaaaatgggtg ctgctgatgg tgataatgct agtaatggag 180  
ctgaagttga aagccagagt tctttgccgg ataacaaagt tcgagtgtta tggcttgatg 240  
atagtgaaaa aacagaagac attgatgagg tagttgttgt tgatagaagt ttccttcatg 300  
gtgatttagt tgcctctgcc tcagatccaa ctggtcagat ggggcttggt ttggatgtca 360  
atcttgtggt tgatttgcaa ggtgtgaatg gcgatatgat aaaggggtgtt tcttccaagg 420  
atctgagacg aatcaaggaa ttc 443

<210> 12231  
<211> 396  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-D2

<400> 12231

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ccacagttat tcatgtgcac ttgagaggct atttctgtat catggacgca tgtatgtctc 180  
ttcatggcat atttgctttc attcaaagt cttctcaaag caaatcaagg ttgtgattcc 240  
tttgagagat attgacgaga taaggagaag tcagcatgca gttattaatc cagctattac 300  
aatatttctt cgaatgggag ctggaggatt tgggtgttct ccattaggat gtccagatgg 360  
aagagtcagg tacatgtttg catcattttg gacaga 396

<210> 12232  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-D4  
  
 <400> 12232

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tcttctgccg cgccaacgag aactactgcc tggccgtccg cgacggcgcc gtcgtgctgg   180
ccccggtcaa cccaaggac gaccaccagc actggtacaa ggacatgcgc ttcagcacc    240
gggtcaagga cgaggaaggc atgccggcgt tcgcgtcgt caacaaggcc acggggctcg   300
caatcaagca ctccctcggc cagtcccacc cggtaagct cgcgccttcc agcccgacc    360
aggaggacgc gtcggtgctg tggacggaga gcaaggacgt gggcaagggc ttccgctgca   420
tccgcatggt caacaacacc c                                     441
  
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<210> 12233  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-D5  
  
 <400> 12233

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ttaccattca tgttcaaccc aatggccatg acgattccac ccatgttctt acagcaaccc   180
tttggtgggt ctgcattcta gatagaaata tttgtgttgt accgaataat gagttgacat   240
gccatcgcgt gtgactcatt attaacaata aaacaagttt cctcttatt                289
  
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<210> 12234  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-D6

<400> 12234

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atcagaagct tgtaaaccat gtttactttt cccctgatgg acaatggttg gcaagtgcac 120  
cctttgataa atctgtcaag ttgtggaatg gtatcacagg taaatttggt gcagcattca 180  
gagggcacgt tgcagatgtc taccagatca gctgggtctgc cgacagtagg cttctactaa 240  
gtggaagcaa ggattccact ctaaagatct gggatattcg aacacacaag ttgaaaatgg 300  
acttgccggg ccacgcggat gaggtgtaca ccgtggattg gagccctgac ggtgaaaagg 360  
tggcgtctgg tggcaaggat cgggtcctca agctatggat gaactgatng attattatat 420  
atctatg 427

<210> 12235

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D8

<400> 12235

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gattaattca gttcatgttg ttatggttgt cttccc 96

<210> 12236

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C5

<400> 12236

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ggatcacatc ggtgatttcg tcaccccgcg tccaccatct ctggcttgct gtccctcatcc 120  
cgtcatatac atccttagct cgataattac attgtagcat ttaaccgaac acatgtacct 180  
atcaccattg cataagataa ggctcctcct taccgaaata ggaaatgac attttcacac 240  
aacgtgattt tcccatgtga agtgaatgta tccataaata gatgggctta cagagtgtta 300

agtggacgct tctcatgaag cggacatgga taccgaagct gacatgacac tatatcgcat 360  
aaagtttact tgtgactttc atgttttagc atgtttatac tactgacata ctttctacta 420  
ctccatttct atacta 436

<210> 12237

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B1

<400> 12237

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aaccaaaata tcaaggatat gaaatctatc ctttacggca atgggtgaatc agagcctgta 180  
actgaagcat gtgtacaatt gacccaagaa ttcttcaggg agaacacttt acggctatta 240  
atcatacatc ttccaaaact aaatttggag gtatgtaatt tgacctgttt ttgcatgtag 300  
attgacagta ctactggagt agcttttatt acatacataa tacatacccc tcttggtatc 360  
gttttttacac aaaaaaactg atacattcgt atggatgtat ctctacttct gattgttgca 420  
gactaggaaa gatgctactc 440

<210> 12238

<211> 442

<212> DNA

<213> Zea mays

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<400> 12238

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gaggctttcc tctgaagcc aattatctat tcttaggtga ttatgttgat cgaggcaaac 180  
aaagtttgga gactatatgc cttcttcttg cttacaaaat caagtaccct gagaactttt 240  
ttcttctgag gggcaatcat gaatgcgcct caataaacag aatatatgga ttctatgatg 300  
aatgcaagcg tcgatttaat gtgcggctat ggaaggtctt cacagaatgt ttttaacactc 360



tacctgtggc tgctcttata gatgataaaa tattatgtat gcacgggtgga ctctctcctg 420  
atctagcaca cttggatgag at 442

<210> 12239  
<211> 395  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-B11

<400> 12239

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atcgcgcgcc ggctaggggtt cctcggaacc cgagccccag cacacagaca ccgcgcgggc 180  
ggacactgct cgctccccct tctcctccgt cgccgccacc gcagaagcct ctaccactgc 240  
acgtncgagg ccaccgacac atattctacc aaatctatgg gagcgcgagg tagtcggcgt 300  
ctcggcgatt tggcgaggag ctggaaggaa ggaaggaagg ggcgatgaga atttcacgac 360  
agcttgtgaa tcctcgccct agatgccgac gggca 395

<210> 12240  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B12

<400> 12240

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cggctgctgg ccttgccctgt ttcgttttca cccttggaag gctgatgaat gtgaaagaag 180  
attatggaga actttcttca atagcaaggc agggatctgg gagtgcattgc cgcagtatat 240  
atggtgggtt tgtgaaatgg tgcattggag aaaaagatga tggaagtgc agtattgccg 300  
tgcagcttgc tgacgaaaca cactggaatg atcttgtaat tattattgca gtggtcagtt 360  
caaagcagaa ggaaaccagt agcaccagtg ggatgcgaga taatgttgaa acaagtcctc 420  
tcttgcaagta cagggc 436

<210> 12241  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-B3

<400> 12241

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tctccgtgct cgcggctgcc agcgcagcg ccgggacctc ctgcgtgccg gggtagggcca 180  
tcccgcacaa cccgtccccg agctgccgct ggtacgtgac cagccggacc tgcggcatcg 240  
ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccgggagctg gcggacatcc 300  
cggcgctactg ccggtgcacg gcgctgagca tctcatgga cggcgcgatc ccgccgggcc 360  
cggacgcgca gctggagggc cgcctagagg acctgccggg ctgcccgcgg gaggtgcaga 420  
ggggattcgc cgccaccctc gtca 444

<210> 12242  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B5

<400> 12242

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gggatgggtg catcacgacc aaggagctgg gcactgtcat gcgctcgctg gggcaaaatc 180  
ctacagaggc tgagctccag gacatgatca acgaggtcga tgctgatggc aacggcacca 240  
tcgatttccc agagtttctc aaccttatgg ctgcgaagat gaaggacacc gactctgagg 300  
aagagctcaa ggaggccttc cgtgtgtttg acaaggacca gaacggcttc atctcggccg 360  
ccgagctccg ccatgtcatg acaaattctg gtgagaagct aactgatgag gaggtggacg 420  
agatgatccg tgaggctgat g 441

<210> 12243  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-B6

<400> 12243

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaagg gataacacat taaagattac 180  
aaacttacat aagctaacct aaaaaacatg atttaactgt aaatgaaact caaaacaata 240  
tcaccatcaa tataacaaaa aaactgagat ttacaaaacg cacagataaa tcacactgaa 300  
tgtcaaaaag aactaatcct attatttcac attatacaca ataacaaaaa cgcttacata 360  
tatcccgaca aaaaaaattg ctaaattaca aatggaaatt acaatctatc ttatcactaa 420  
at tt 424

<210> 12244  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-C4

<400> 12244

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gtggaccatc agtgccatca caagtgaacc caccgcttcc gcctatgcct cacccaacgg 180  
caatgcatgg ttcacagagt cagatgatgc cccaaatgcc acagcacatg atgggcctaa 240  
atcagatgca tgctggttct gtgcctactg gtactgtacc cccaatgggt gggttcccaa 300  
gtgggatggg aaacatccaa ggagcatcag gttcgtctgg cgtacaaaat tttcctatgg 360  
gtggcatgta taatcggcct cagggacaaa tggctccaca agggccaatg ac 412

<210> 12245  
<211> 441  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A6

<400> 12245

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cgcagaaggt agcggacaag gtcgcgctga gcctgccgag cgacggcagg tacacgtcgg 180  
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gcagagactt caccacgatg ctggccggga cggcgccgct ccacgccgga gccggagccg 300  
gtgcccacgg gtactacgat tactacatcg gcattgacgt ggagcatgca caagttggcg 360  
gccccggcgg ggcgtcgtc gggcgctgc actacacggc ccattacacg gcgctacagc 420  
ccgacgtgta cgcgtcgttc g 441

<210> 12246

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H11

<400> 12246

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gcaccaaggg cggttttccc tagcattgtt ggccgtcctc gccacactgg tgtcatggta 180  
gggatgggac agaaggatgc atatgttggc gatgaggcac agtccaagag aggtattctc 240  
acgctcaagt acccgattga gcacggtatt gtgagcaact gggatgacat ggagaaaatc 300  
tggcatcata ctttctacaa cgagcttcgt gttgcaccag aggagcacc tgtgttgctc 360  
actgaggctc ctttgaaccc aaaggccaac agggagaaga tgacccaaat tatgtttgag 420  
actttcaatg t 431

<210> 12247

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H2

<400> 12247

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taaaggccga ggattaaaag aaaaggaaaa ggaaaaagaa aaaaagattc aaaaaagaaa 120  
aaaccaaaaa gggaaaaagg aagaaagaag atacataaat aaaagggaaa aaaaaaagga 180  
aggcatgaaa aaaaagatga acaaagttaa agagaaaaga gagaaggaca agaaaaagga 240  
gaagaaaaaa gcaaaagagc agaaaaaaaa agaaggaaca aaaaaaagca aaaaaaaaaa 300  
aaaaaagaag gacaaaaaaaa aaaaaaaaaa aaaaaccaa gaccaaaaaa aaaaaccaa 360  
agagaaaaaa aggaaggGaa taagggaagg agaacctt 398

<210> 12248

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-H4

<400> 12248

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ggcagcagtg ttgccagcag ctCaggcagg tggagccgca gcaccggtag caggcgatct 180  
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tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 300  
catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 360  
gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 420  
cgc 423

<210> 12249

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-H8

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tatttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttattttt 180

tttttttttt tttttttttt ttttttttatt tttttttttt ttttattttt tttttttttt 240

ttttttttat tattttttat ttattatttt tttttttttt tttatatttt tttttttttt 300

ttttttattt tttatttttt ttttatttat tttttttatt gttttttttt tttttatttt 360

tattttattt tttttttttt tttttgtttt tgtttttttt tttttttatt attttttttt 420

tgtttttttt tttgtatttt tttttttttt t 451

<210> 12250

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H9

<400> 12250

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cgtgagatcg cccaggactt caagaccgac ctccgcttcc agagctccgc cgtcgccgcg 120

ctgcaggagg cgtccgaggc ctacctcgtc gggctcttcg aggacaccaa cctctgcgcc 180

attcacgcca agcgcgtcac catcatgccc aaggacatcc agctcgcccg ccgtatccgt 240

ggggagaggg cctaggcgtc gtcccgggtg aggtggaagt agtagtggcc gtttctgtca 300

tactgtctg gctagaaggt gtagagatgt gccgggttct gtagtttggg ttatcgggtca 360

aatcatgatg tagttgggtc taccctgctg taatttaact atgactatgc aatggcaatg 420

<210> 12251

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A1

<400> 12251

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tgcatacacat tgtctccct atctccatga gtcacggcat cagcatgcct tgaaaagggc 120  
 caggggagct ggaggtcggt ttctcaattc gaagtcagat gacaaggaag agaactccga 180  
 ctcaagtcaa aaagagattc agaacggagt tgcgccccaa aagggtggcc aaccgtcaac 240  
 ccctccgtct cccaacgggtg cgtcgtcagc ttatcaggcg cctagtcgtg aatgatgatt 300  
 cggaactcac aactgaagag attttagtcc ctgacgctag ttgtggcagc agctttgtac 360  
 agtaagtgt agcgggcagc agcgaaatgg tgtcatagaa aaacgttgac gagtcagaca 420  
 ggttttggag tct 433

<210> 12252  
 <211> 243  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A10

<400> 12252

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 aggacatggg ccttaataat caccttgaac tgccaaaggg aacgcctgtg tgggtgtgtg 120  
 caagcgtgct aaaggccact tagaaaagtc tcattagtat ctgagttgag ttccagttcc 180  
 actcttatgt tttcaacagt agacaatgtt cctgttcgtg agttgtctgt gtgattttct 240  
 tct 243

<210> 12253  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A11

<400> 12253

aaaaaaaaa aacagaaaaa aaaaaaaatt aaataaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 gaaaggataa aaaaaaaggg gcggccgttt taaagatccc aatttaactt ccccttcctt 120  
 ccaacttaat acctttttta tagggccccc taatttaaatt tcattgcccg ttttttaaaa 180  
 acttcttaac tgaaaaaacc ttggctttcc caaattaaat ccctttgaaa aaaatccctt 240  
 tttccccagt tggcttaata ccaaaaag 268

<210> 12254  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-A12

<400> 12254

gcggaccgtg ggtggtgaac cctgcctcta ctacaacagc aacaactgat ttatgtaggc 60  
ttcgtctgtg taatgcacct acatacctgc acaacagttg ctgcaacaga ttgtaccagc 120  
tctgactcag ctagctgtgg caaacctgc tgcctacttg caacagctgc ttccattcaa 180  
ccaactgact gtgtcgaact ctgctgcgta cctacaacag cgacaacagt tacttaatcc 240  
actagcggtg gctaaccat tggtcgttgc ctccctacag caacaacaat tgctgccata 300  
caaccagttc tctttgatga acctgcctt gttgtggcag caaccatcg ttggagggtc 360  
catcttttag attacatatg aatgtactc gataatggtg ccctcat 407

<210> 12255  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-015-Q1-K1-A2

<400> 12255

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tgggtccggc gtcaagcgtc gcgggctcca ctgagcgtgc gtgtcaccgg cgggaggcaa 120  
gggcaggcgg tgggtggcgt ggcgtccgt gacgcgcgtc tggcggggat cgctnctcc 180  
atccgcgtca tctccgactt cccaagcca gggatcatgt tccaggacat cacgacgttg 240  
ctgctcgatc ccaaggcgtt ccgtgacacc atcgacctct ttgtcgagcg gtacaaggac 300  
caagggatca ccgtggttgc tgggtgtgaa gctagagggt tcatttttgg tcctcctatc 360  
gctttagcca ttggcgcaaa atttgtgcct ttgaagaagc cgaagaagtt gccaaagcag 420  
gtgatctncg aagagtattc tttgga 446

<210> 12256  
<211> 441



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-A3  
  
 <400> 12256  
  
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 cagcctggcg ccaaccagct ggaccacgcc aatgcgagggc tgacgtccaa ggcccgcgac 120  
 atcgaggatg cagcacagca ccgcatcgac cagccgcagg ggtcttgaca gaagaaccac 180  
 actagatcgg accgctcgcg cgacctactt gtaccactgc cggagcggcg gcatatggcc 240  
 cttaaaggcg gtggctgctg ctacgtacgc tgccgtagag tctcggtcgc cgcgatagct 300  
 ctagctagtc gtttatgtgt tgtgctctgt gtgtgcatgc tcgtgtctgg tggcatgcag 360  
 tgcaccgcag tactatatgc tgtatgcgtc tatatttgat cggagaggct gatgtacagc 420  
 atgctcgata tgtctagttt g 441

<210> 12257  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-015-Q1-K1-A4  
  
 <400> 12257  
  
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 gatgcagatc tttgtgaaga ctctgacggg gaagaccatc actttggagg tggagtcctc 120  
 ggacaccatt gacaatgtga aggccaagat ccaggacaag gagggcatcc ccccggacca 180  
 gcagcggctc atcttcgccg gcaagcagct cgaggacggc cgcaccctcg ccgactacaa 240  
 cattcagaag gagtccaccc tccacctggc gctccgcctc cgcggtggcg ccaagaagcg 300  
 taagaagaag acgtacacca agcccaagaa gatcaagcac aagcacaaga aggtgaagct 360  
 ctccgtgctg cagttctata aggtggacga cgccacaggc aaggtgaccc gnetncgcaa 420  
 ggagtgcccc aacacagagt gc 442

<210> 12258  
 <211> 346  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F4

<400> 12258

gcagatttgg gtgggtttga tggggattct tattacgaca acaatgtgga actagatagt 60

aagctatatc ctgttaatgg gacctactat ctctggtaaa actttacttg caaagacatt 120

atctcgtttt gtgaatgtac catttgtaat tgctgatgca actacattaa cccatgcagg 180

ttatgtatta taggatttat aatctatatt atacaattta ctacttttt catattttta 240

tgtacaagca tttcatcatt ttatatattta catatactat ttttataata tcataatata 300

agtttgaata tttaacttta ttataaactt atctttttta tttttt 346

<210> 12259

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-F5

<400> 12259

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agtccatcct gcagcagcag ccgcaaagcg gccaggtcgc ggggctgttg gcggcgcaga 120

tagcgcagca actgacggcg atgtgcggcc tgcagcagcc gactccatgc ccctacgctg 180

ctgccggcgg tgtccccac tgaagaaact atgtgctgta gtatagccgc tggctagcta 240

gctagttgag tcatttagcg gcgatgattg agtaataatg tgtcacgcac c 291

<210> 12260

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F6

<400> 12260

ggcggcggct gatgtggagt accgttgctt cgtcggcggg cttgcctggg ccacgagcaa 60

cgagtcgctg gagaatgcct tcgcctccta cggcgagatc ctcgactcca aggtcatcac 120

cgaccgggag acggggaggc cccgcggctt cggcttcgtt accttctcct ccgagaactc 180

catgctcgac gctatcgaga acatgaacgg caaggagctc gacggccgta acatcacctg 240  
taaccaggcc cagtcctgtg gcggtggcgg tggcggcggt ggctacggcg gcggtcgcgg 300  
cggcgggcggc gggttatggtg gcgggcgccc tgacggcggt tatggcgggc gtggcgggta 360  
cggcggtcgg cgcgaagggtg gcggcggcgg ctacggaggg ggtggc 406

<210> 12261  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F7

<400> 12261

cccacgcgtc cggaccaact agcaacatag aaagcacaat agtgtaccaa caatggcagc 60  
caaaatattt tgcttgctta tgctccttgg tctttctgca agtgttgcta ccgcaaccat 120  
tttcccacaa tgctcacaag ctccatagc ttcccttctt ccccatacc tctcaccagc 180  
ggtgtcttca atgtgtgaaa acccaattgt tcaaccctac aggatccaac aggcaatcgc 240  
aacaggcatc ttaccattat cacccttgtt cctccaacaa ccgtcagccc tattacagca 300  
gttacctttg gtccatttgg tggcacaaaa catcagggca caacaactac aacaacttgt 360  
gctagcaaac cttgctgcat actctcagca acatcagttt ctccattca accaactggc 420  
t 421

<210> 12262  
<211> 302  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F8

<400> 12262

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gaccggaagt aatcatcagg aaaggaaagg gttgaaccat gagcgccgtg gctgtttcgt 120  
cgtcgcttaa cccggacgcg ccgctcttca taccgcggc gctgtttcac gtggaggact 180  
tttctccgca gaggtgggac ctcatcacca ccaactgtctg ggtccgcgac cactgttccc 240  
gcgagcgcgc ccacatgtac acgatagccc agcacatata cacgggcggg ctctccgacg 300

<210> 12263  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G10

<400> 12263

gaggaggaag aagaagctga gtgtgataag acagttaggg aggttcgcga gagcgtgtag 60  
ctggatatga cctcactgca catctaaatg ctgcctgtga ggctgtgacg tgtctgtaga 120  
taattggctt tattgtctgc tgaatttggc agaacttatg caattctggc gtcagatata 180  
gtgggtctata taagcctttt ccatcctgta atatatttgt tttgttgaac tgtatgtgtg 240  
gtactccgta tatgggtttg ttctaaggga gc 272

<210> 12264  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G11

<400> 12264

ctactatact atactctagg aagcatggac accaccgcca tggcagccaa gatgcgggca 60  
ttgttcgctc tcttagctct ttgtgcaagc gccactagtg cgacgcatat tccagggcac 120  
ttgccaccag tcatgccatt gggtagcatg aacccatgca tgcagtactg catgatgcaa 180  
caggggcttg ccagcttgat ggcgtgtccg tccctgatgc tgcagcaact gttggcctta 240  
ccgcttcaga cgatgccagt gatgatgcca cagatgatga cgcctaacat gatgtcacca 300  
ttgatgatgc cgagcatgat gtcaccaatg gtcttgccga gcatgatgtc gcaaatgatg 360  
atgccacaat gtcactgcga cgccgtctcg cagattatg 399

<210> 12265  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G12

<400> 12265

cacgcgtccg aagagttctt cagcgccttc gaggaggaga tggaggtcaa gcggcggttc 60  
gagcaggggc aggcggcgct cgagggcgcc actgaagaca tggacctcat gggccgggtc 120  
ctcgatgagc tcgacctgct gcagcgccgc tcccaggacg tggacctcga catggtggac 180  
gtcaaggtgc agaagctcat gccagagctc gggttcatgc ctgaggacgc cgaccgcctc 240  
gtcgctcctt tcagcgggtg gtggaaaatg aggatgtctc taggcaagat acttcttcag 300  
gacctgatt tgcttttgct tgatgagcct acgaaccatg tcgatttaga taccattgag 360  
tggctggaga tgtatctcaa gacgcaggat gtgccgatgg tcattatc tcatgac 417

<210> 12266

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-G4

<400> 12266

tcccgggtgga cgccacgcgt ccggggcctt ctcccgtcac cgtccacgtt accggattca 60  
agaggttcca tggagtnccc tgggacccta cggagaggat cgtgcgcggt ctccagccat 120  
tcatggagac gagaggggtg cccaagggcc ttgttctcgg gagctgcacc gtccttgagg 180  
ccgccgggca gggcgcgctt ggcccgtgt atgaactgct ggagtcgacc gtctccggcc 240  
gggaacgtca ggagcgagta attctgctcc attttggcgc caacagtggg tcacataggt 300  
ttgctcttga gaatcaagct gttaatgaag ctactttccg ttgccctgat gagctaggat 360  
ggaaaccaca gaggacacct atcatatctt cagatggaag catcttacac tcaagacata 420  
cttcac 426

<210> 12267

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G5

<400> 12267

cccacgcgtc cgcccacgcy tccgcccacg cgtccgcgag attctgaatg taatatagta 60  
 gaatcatcta taagctgtcg gatatcatgt atctcttaca aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaacaaaa acaccaaaca aaaaaaaaaac 180  
 aaaaatacaa cataacaaat catatataga tccaccatga cgcaaaccgc ccgcctccct 240  
 acaacaacgt ccgcatctaa aacaaccctg tcgctacca acataccctt acagcacaac 300  
 accctgggtt caccagatga tgtaacaacc aatagtcccg cacataccga tcttacc 357

<210> 12268

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G6

<400> 12268

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 agatggcggc gtcggacgtt gagtaccgtt gttcgttgg cggcctcgcc tgggccaccg 120  
 acgaccactc cctcaacaac gccttcagca cctacggcga ggtcctcgag tcgaagatca 180  
 tcctggatcg ggagacgcag aggtcccgcg gttcgggtt cgtcaccttc tccacggagg 240  
 acgcgatgcy cagcgccatc gagggcatga acggcaagga gtcgacggc cgcaacatca 300  
 ccgttaacga ggcccagtc cgcggcggcc gtggaggcgg cgggtggcgga tacggtggcg 360  
 ggcgccgtga tggaggcggc tacggcggtg gcggtggagg ctacggcggt ggtcgtg 417

<210> 12269

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-G7

<400> 12269

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 tgaagtgaga agatccacga gaaactgcgg cagtttcaca aattttgcta cgcattcatt 120  
 tccttgggca atgctgtttc gtaggcatag gggcatgtta agtggattca tctctgtcgc 180  
 tatcatactt tcgaactgag ttccagaagg aaaaaaactg tggactgttg ccatctggga 240

taattcctgg gctgcagcat tcgccatcct tctcccgggt ccttcagggt cattttgaca 300  
 ttcttgtgat accctcagaa ccttttgaac tgatgaaatg gttaaggtgg agtaaaaaaa 360  
 annnaannna a 371

<210> 12270  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G8

<400> 12270

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 attgattgct gcatgctgct tccatgcata ccaacagggtg tcatacatga tcctcgccag 180  
 ggtatcccca gtcacacatt cagtgggcaa ttgctgcaag cgtgtgggtgg tcattgtgac 240  
 ctcggttctg ttcttcagga cccctgtttc tcccatcaac tctactcggtc ccgggatcgc 300  
 tcttgcctgga gttttcctat actcgcaatt gaagaggctt aagcccaagc ccaaggctgc 360  
 ttgatcatag acctttgcag gtccatccaa tagaactttt gaagttatgc tatgccatt 419

<210> 12271  
 <211> 123  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G9

<400> 12271

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 tct 123

<210> 12272  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H1

<400> 12272

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ggagcaacaa tagagcaaca atggcgacca agatattttc cctccttatg ctccttgctc 120  
tttctacatg tggtgctaac gcgacaattt tccctcaatg ctcacaagct cctatagctt 180  
cccttattgc ccatacctt ccatcaatta tagcttcaat atgtgaaaac ccagctcttc 240  
aaccatatag gtttcaacaa gcaatcgag catgcaacat acctttatcg cccttggtgt 300  
ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc atggcacaac 360  
agctgcagca actcgtgcta cctctgatc 389

<210> 12273

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D6

<400> 12273

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cgctcgctcc tgctcccagc agctggtcaa ggcggccgta ctggcaggcg cgctgctgat 120  
gctggcggcg ggggcccggaa cggcttcagc tgccgagagc tgcattgccag gtgaccactt 180  
ctgacgagac gtgccttaga tacgcaatac acagaacggc attctccaac atgacgagct 240  
gcacctgggt gcgctagatt aacagacgtg cgtc 274

<210> 12274

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D8

<400> 12274

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ttcggcaacg gcaatgccaa ggtgcagttc accaaggagc cgaacaacct ctacaacatc 180  
cactccttca aacactcggg tttggcgaac aagaagactg tgacgatcca gccagctgca 240



aaggactcgg ctgtggctct ctctactacc aagaccaaga agcagaacgc acctgcgaag 300  
 ctcagccaca agtctgtgat ggcgaaggag ttccgcaaga tggccaaggc tgtgaaaaac 360  
 caggtttagtg acaactacta caggcctgat ctgaccaagc cagctcttgc taggct 416

<210> 12275

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E1

<400> 12275

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 gatgctcctt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 120  
 agctcctata gcttcccttc tttccccata ccttccatca attatagctt caatatgtga 180  
 aaaccagct cttcaaccat ataggettca acaagcaatc gcagcaagca acataccttt 240  
 atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tgggtacaaac 300  
 catcagggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc 360  
 aaacctttct ccctactctc agcaacaaca atttcttcca ttcaaccaac tgtctacact 420  
 gaa 423

<210> 12276

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E11

<400> 12276

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 acaaatacat ctactattcc aactactca ctccccacca ataactat accacatctc 180  
 ctc 183

<210> 12277

<211> 425

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-E12  
  
 <400> 12277  
  
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 atctttctac gtgacaactg ttggattcta cttctgtact atgctaaccg tgctgaccgt 180  
 gtacatattt ctctatggga aaatgtatct ggccttatct ggtgttggag aatcaattca 240  
 aaatagagcg gatatactgc ataacgccac cttgaatgct gctctgaaca ctcaatttct 300  
 tttgcacatt ggtgtattta ctgctgttcc catgattctt ggtttcatcc ttgaatcagg 360  
 tgttttaacg gcttttgctc agtttattac aatgcagttc caaatgtgct ctgtattttt 420  
 cactt 425

<210> 12278  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-E2  
  
 <400> 12278  
  
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 ggancctacc tncgacataa ggctgggcag cctcagcata ccgaaaggca acgggatcgc 120  
 catacccgtc ccgttcctcc accgagacag agaggtctgg ggcgacaacg ccaatgactt 180  
 cgatccggtg aggtttcaga acgggggtcac gaacgcggcc aagaccccg caggctcttct 240  
 gtcgttctcg atcgggccga gggcatgcat cggccagaac ttcgcgatgc tggaagcgaa 300  
 gtcggtgatg gccatgatca tgaagaagtt ctcttcacg ctttccttga gctacgtgca 360  
 cgctcctgag gatcatat 378

<210> 12279  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E3

<400> 12279

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ggcagcaaca actactacca ttcagccagc tagctgggtg gagccctgct gccttcttga 120  
cacaacaaca gttattgccg ttctacctgc acgctgcgcc taacgctggc accctcttac 180  
aactgcaaca attgctgcc a ttcaaccaac ttgctttgac aaaccagca gcgttctacc 240  
aacaacccat cattgggtggg gccctctttt agatttctta tgagttatag ttcaataata 300  
aagttttttg tctgatgttt gtggcttccc agaaataata aagtcattt ct 352

<210> 12280

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-E6

<400> 12280

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ccggttaatc cgaacataga agctgtcaaa tgggttcttca aggaacggct tgatgttaat 120  
ccaaaagagg agagcaggac attcttgaca tttgtcatcc ctcatcacia agaaccactt 180  
ctgacgagat tctttggaga gttgcaagac aggggaagggg agtttggaat atcagacatt 240  
caactcggtc tgacaacact tgaagagggtg ttcttgaaca ttgcaaagca ggcagagctg 300  
gagacctcta ctgctgaagg taccctgggtg actctcaacc tgtcatcagg aacaacaatt 360  
cagattccca aggaggctcg tttcgttggg attcctggaa ctg 403

<210> 12281

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F1

<400> 12281

accgcactct acaccgtaac acctctcatc taaccaccgc agccctacta acaaagaaag 60  
acgcttatca cgatgtccag tgcacctata ctcgttcaac accacctttt ccaacaacat 120

ttgcaccatc acaatacacc tattatcact tatccttaag agctactcac ttcacactac 180  
 tttcaccacc cactttccat aatcaactga ctgtttctaa ctctactgca tacctacaac 240  
 atcgaccaca aacacttaat ccaact 265

<210> 12282  
 <211> 516  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-F10

<400> 12282

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 tgggggtcttg agntagtatt nnntccaatt gcattttatta ttttatttaa atgtccacac 120  
 tcctaagtga tctgctgttt atttnnngtc aattaagggt cacttagtca annngcttgca 180  
 gccnnttaaa gggaccctcg atgcaagggt ttanngggag atnccgaagn nctatttggn 240  
 natcttgtaa ttgatcgga agcttcccat ctgaatcatc gaaatttntg tactcatttt 300  
 gcaggatgtg nctttaatct ccttccaaat tntgaactgt aaatgagccc taattaaagc 360  
 cttttgcagt gaaaacataa cgaccatgat gtttggtgaa tataacctgt ctttctctga 420  
 tcccggaagc gtcatttgcg ccttctnaca atttaatan acaattaaga tgcttaaaca 480  
 aaggagcatc gagaaaggcc gaggggatcc gaaacc 516

<210> 12283  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F12

<400> 12283

tccaatccca atccatctcc gggcattccg gcgcgtttag ttcattaggt cttctttctc 60  
 atcgggggct agtgttatct tacctttctt cttttctgtc tattgggttaa ttgggtcccc 120  
 ctgaatgttt ttttggttgt atagagagag aaagagaaaa gaagggttaga agagaagcaa 180  
 gagaaataga tgaatcaaag tggt 204

<210> 12284  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-D3  
  
 <400> 12284  
  
 ggcgaagttg ttgtagttgt tgtgctatca aaccttgctg cctactctca gcaacancgg 60  
 tttcttccat tcaaccaagt agctgcattg aactctgctg cttatttgca acaacaacta 120  
 ccattcagcc agctagctgc tgcctacccc caacaatttc ttccattcaa ccaactggca 180  
 tcattgaact ctctgctta ttacagcag caacaactac taccattcag ccagctagct 240  
 ggtgtgagcc ctgctgcctt cttgacacaa caacagttat tgccgttcta cctgcaagct 300  
 ggcgctaacg ctggcacccct cttacaactg caacaattgc tgccattcaa ccaacttgct 360  
 ttgacaaacc cagcagcggt ctaccaacaa cccatcattg gtggt 405

<210> 12285  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-B7  
  
 <400> 12285  
  
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 aagcttctga caacagagca cagcacacaa caatacaata cactggagtt ctttaaggtaa 120  
 ccattacaat caggcagcta atcgttggtg cagtttcaac acatatatag ttccgcatac 180  
 cgcaggaaac tatatgcatg catcgacatt atttgggggg catcggaccg gagcatctca 240  
 tatccatcca gaccgaccgt gctcgtcagg gtccgccatg tcctcgttca gctgggtccat 300  
 gtaggcctgc tgatggtacc gtgtctgcag ggaaggatca ttgccatggt gctgaaggag 360  
 tccctggaac ggaccaagaa cactactccc actgtgccc 399

<210> 12286  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-B8

<400> 12286

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 tgccaaagtt cactgaaatc ttccccgtgg aggacgcgaa ctacccttac agcgccttca 120  
 tcgcgtcggt ccggaagac gtgatcaaac actgcaccga ccataaaggg atcttccagc 180  
 ccgtgctgcc accggagaag aagggtcccg agctatgggt ctacacagag ctcaaaacta 240  
 ggaccagctc catcacgctc gccatacgca tggacaacct gtacctcgtg ggcttcagga 300  
 ccccgggcgg agtgtggtgg cagctcaatg gcgactgg 338

<210> 12287  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C1

<400> 12287

atgttcatac ctttcgggct tctttgtctc caaacttcaa atcatattgc agaaatcgtc 60  
 tgaccgctat gatgttgact gtgtgcctga tgcttacaga ggaaataggc aagcttatat 120  
 taaggacagc tcgatttcta agaactgtac tctggaagcg aaggttctgg aatacatgag 180  
 agcaccaatt tatgtttatt atgaacttga gaatttctat cagaatcacc gcaggatatgt 240  
 caaaagtaga agcgataaac agctgcgttt tggggcaaaa tacacggccg actcgtgcag 300  
 tctgttgag tgggataata atggttcccc aattgttccc tgcggcttga ttgcctggag 360  
 cttattcaat gatacatatg gttttactcg tgggtccaag gaaataaagg tcaaca 416

<210> 12288  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-C12

<400> 12288

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atgtacttct gggatgccaa agggcatact cccgtgtacc ctcagatctt tggccaccaa 120  
gctaaacgta ttataaacag tgttgtagat ggtgatactg acctaacgta caacgaccat 180  
gtcctacctg tgttcactgt gcagtgcatt gagacgatac aactgcaag ctggctatat 240  
atcaacatgt gtgcaccgct gangatcaac accgactcgt actgagatga tcgccgatag 300  
caatacccag gttctaaatc aactacaagc ctatatacca ctttggaac acttacacct 360  
tgatcgagta caccgacatg cata 384

<210> 12289

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-C3

<400> 12289

gggtgggttg cttctctctc cctcctttt cgggttcggg ttcgtgaggt tctccgnagt 60  
tacttttcaa aaatgagcgg atcgagatag catcatacaa tgttgagtac cgctgcttct 120  
tcagcagcct cgctgtgcc acagactacc actcacttca caactccttc agcacctaca 180  
gcaaggctct ctagtccaaa atcattctag atcggcaaac acaaaaatcc cacgtcttct 240  
acttctttac cttcttcac 259

<210> 12290

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C4

<400> 12290

ccgtccatga ggaaattctt gctggctttg ggcttcagca aggggcagcc ccactttctgc 60  
tagttcatct tcaaagggat cgacgcccgg ttcctgagcg aagccctggg cgtcagcatg 120  
cacgtcgccg agaagctgca gagccggcgt gaccagcgag gcgagatcgt ccgcgtggag 180  
ccggagcacg gctttcacca gctgaatccg tcgccgtcgt cgtcgtcgtt ttcgttccca 240  
tcgtcacaag tccagtacca aacttgccag ctcgacgtcg acaggcacia cttctgcgcc 300

atggaggtga tg

312

<210> 12291

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-C5

<400> 12291

ctttcaagat ggacgacaag ttcaaggaga tcgttgtgga ccaggtcggg gatggcggtg 60

ccagctacga ggacttcaca aacagcctcc ccgagaatga ctgccgatac gcgatctatg 120

atttcgactt tgtcactgca gaagatgtcc agaagagcag gatcttctat atcctatggt 180

ccccatectc cgccaagggtg aagagcaaga tgctttatgc aagctcaaac caaaaattca 240

agagtgggct caatggcatt cagggtggaac tgcaggctac tgatgcaagt gaaatcagcc 300

ttgatgagat caaggatcgg gtcgctagg catcatgatc atgcatcatg gactcggcct 360

actactgtgg atttgtatgc cattatagac tnggtgctgt gaaagactgc ttgatgattt 420

<210> 12292

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-C6

<400> 12292

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtggggg cgtgcagatt 60

atggcaccta atgctggtga gatcatccac gaagctgtcg tcgccttgca gtatggagca 120

tccagtgagg acgttgctcg aacatgccac gcacacccta ccgtgagtga agccctcaag 180

gaggcttgct tgcaaacctt cgataaagca atccacatat aatttctcat tttttgtgtc 240

caaactccaa agtttgtggt aattttgggt ctgttgga aaaggcccct gattgtcatt 300

ttgtttttgt cggccatact gtgaattgac cctttgagtt gtccatctta gcgggggttt 360

gtgcttgctt ggcttggttt atccatccaa ataataacct gatactat 408

<210> 12293

<211> 411



<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-014-Q1-K1-C8  
  
 <400> 12293  
  
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 aatgggttttg atggtacaga tacacattac tttcacagtg gtccacgtgg ccatcactgg 120  
 atgtgggatt ctgcctatt taactatggg aactgggaag ttttaagatt tcttctctcc 180  
 aatgctagat ggtggctcga ggaatataag tttgatgggt tccgttttga tgggtgtgacc 240  
 tccatgatgt acactcatca cggattacaa gtaacattta cggggaactt caatgagtat 300  
 tttggctttg ccaccgatgt agatgcagtg gtttacttga tgctggtaaa tgatctaatt 360  
 catggacttt atcctgaggc tgtaaccatt ggtgaagatg ttagtggaat g 411

<210> 12294  
 <211> 83  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-C9  
  
 <400> 12294  
  
 cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgctccggg aacagtggaa 60  
 aatttatgca agcatttctg ctc 83

<210> 12295  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-D1  
  
 <400> 12295  
  
 aagaaataga agaggggaat gcgtctggac taattgctgt ggctcccag tcagaaggga 60  
 tgatgatgcc ccatttatag atggaaacca agcagagggt ggtgcactgt gggatatttt 120  
 tcgacgggaa gatgtgagca aactgcatga ttatctaag aagcatgctg atgagtttag 180  
 acattgcaac tttgagccag tgaagcaggt tactcatcct atacatgatc agtggtttta 240

tctaacaatt gagcacaaga gaaagcttaa ggaagaatat ggagtcgagc cttggacatt 300  
tgaacagaag ctaggtgagg cagtatttat cccggcagga tgtccccacc aggttagaaa 360  
tttgaagtct tgcataaagg ttgcactaga ttttgtttct ccggaaaatg 410

<210> 12296  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D11

<400> 12296

caattgcca attacaaca caatccttgg cacatctaac catacaaacc atcgggacgc 60  
aacagcaaca acaatttcta ccagcactaa gccaaactagc tgtggtgaac cctgtgcgct 120  
acttgcaaca gcagttgctt gcatccaacc cacttgctct ggcaaacata gttgcatacc 180  
aacaacaaca acaattgcaa cagtttctac cagcgctcag tcaactagcc atggtgaacc 240  
ctgccgccta cctacaacag caacaactga tttcatctag ccctctcgtt gtggttaatg 300  
cacctacata cctgcaaca cagttgctgc aacagattgt accagctctg actcagctag 360  
ctgtggcaaa ccctgctgcc tacttgcaac agct 394

<210> 12297  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D12

<400> 12297

aaggaccttc ggcgcccggt caggatccac atcttcccga gcgagttctt ggtgggcgctc 60  
ttcctcttcg gaccacctcc aaggctcttg gtgtagcttg cactctcac caatcaagtt 120  
ttcatgtctg atctcgacat tcagatccca actgccttcg atcccttcgc tgaggccaat 180  
gctggggact ctggtgcggc agcagggcca aaggactacg tacacgtgcg catccagcag 240  
cgtaatggtc gcaagagcct gaccaccgct ca 272

<210> 12298  
<211> 417  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-B5

<400> 12298

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gtgagtcctt tagttgatga gcttgttctg ctgctgcttt attgtgcata tacagtgggt 120  
ctctacctgc acctcgctgt gtcggttgtg catgaaatca aggatgccct tggaatctat 180  
tgcttcagga taactagaaa ggaggcttga actttgtagt gaagatatat tattattact 240  
tcacaagtgc tagcgaggag caacacagtt cgtcacctg cagctggga gtgtgtgtgc 300  
ccctggaaat gccacagcca tctgattgta ttgcgcagtt atcttggta tataacaata 360  
tagcagtgtg atgtacactg tagtagggc gttagaagat atactgtgat aaacttg 417

<210> 12299

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-H6

<400> 12299

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atatctcaag gttgatgatt taaaatgtat tcttcacaac atggggaagt ttttatcaaa 180  
caaggacctg aaagacttgg ttcaaattgc tcttgttgag agcaattctg caagggacaa 240  
tcgcataatc taccctaagc ttgtgaagat tgttgacctg taatctggca ctgcttggcc 300  
cgcgtcagtc cccttgaagt taaccatgct atgatcggtg agaagtcaat tatgagaaac 360  
tanttttgtt acttattaat gggttcactg ccatttttgt ggctaccctg ttctacgatt 420  
atgctaca 428

<210> 12300

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H7

<400> 12300

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atctactaca ccataataaa ttctttttata tctcttataaa attattttatc tcatatctta 120  
tacttttttac ttaccttttat ataattaatt taattttattc 160

<210> 12301

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H8

<400> 12301

gccgggtgcg atgcatctcg gactttctcga gtgggtgtttg cgtcagacag ccagccgctg 60  
tggggctagt gttccaacat ttgtcagcct gcttgcgcgga ggaagggggg tcaactgactc 120  
aagagaaggg cctggtcata ggctgctgca ttatgaattt ctgatgatgt cttatgtctg 180  
tactctgaat caactatgta tgagatctca tctcctttct cct 223

<210> 12302

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H9

<400> 12302

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gagaattagg tggagaagaa ggttaagttc aacgctcctt aggtgttcga tggtagccta 120  
gttgaaaatc gtgcgaagcg aaggggtgtgg atcaaaaacaa ctcaacaagac gatgtcggcc 180  
gatgatcctg aagctagatg aactaagcgg gtgtcagaat aaaagttgat cgtcaagtgg 240  
ccatcatcta acaacactaa catagtgtta tcccagggtta taattttggt ctgttggtgga 300  
tgggtgctaag tgccggtggg ctccggccttc ttatataaac tgcgatccat ttccgagctt 360  
cgaggaatca acagtcaagc ttcggcgacc aagagatcga actcttcgag ttctacga 418

<210> 12303

<211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-A10  
  
 <400> 12303  
  
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 ggcaagctcg cggggcacac aggccattct gtcgagaaga tccatgagga cctgtctagg 180  
 gtgaagcgct tcgacgccga aggggctctc gagtacggga tcatcgaccg tattgtcagg 240  
 ccgtctagga tcaagaaaga gggctccact gctcaaagga gggacatgcg gaatctggga 300  
 cttggctaata aatagacgat cgaaatcctg ttgtatcaga attttttgtg caaaggatgc 360  
 gcttattatg ggagagcgag cgatgcactg ttccaagctc tacgcccgcg taggtgtttt 420  
 gttgtgtc 428

<210> 12304  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-A12  
  
 <400> 12304  
  
 cccacgcgtc cggtttggtc caaaattggt gctcattttt tggaatctag aggtatgggg 60  
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 ggaaaattag atgttgcaaa ggctatcgct atagaagcac agagtgaatc taaatggaag 180  
 cagttgggtg aactcgccat gtccacaggc aagctagaga tggcggagga atgccttctt 240  
 caagcgaagg atttaagtgg cttggttgcta ttgtactcat ctcttgagga tgctgaagga 300  
 attgaaaagc ttgcttcttt ggcaaaaagaa catggaaaaa acaatgttgc tttcctctgc 360  
 cttttcatgc ttggtaaaat ggaaagattg catacaggtg cttgtagaca gtagccgtat 420  
 acctgaagct gca 433

<210> 12305  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A3

<400> 12305

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gccagatctg tcgcctgcct tcgctgtagc ttttccgtat cggatgagct cgaggggtac 180  
ggccccggtct gggtagttt cctggagagg ttcccatgaa tgtaggttg cgactgcgat 240  
ggaattgaag tacaagtact cggtggaag ctttgctggt gcatgtgatt ctgactagaa 300  
ggcgaatata gagccaccac cgtgcgcttt gatgcgtgca actgaattca ctgatgttct 360  
gcgagggcgc atctgatcag tgtggatttc tgcaacttgt agttttatcc cgagtgttat 420  
g 421

<210> 12306

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A5

<400> 12306

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caaatgcgtt cattattcca caatgctcac ttgctcctag tgccattatt ccacagttcc 120  
tcccaccagt tacttcaatg ggcttcgaac acctaacttt gcaagccaac atgcaacaac 180  
aagcgcttgc ggcgagcgtc ttacaacaac caattgccca attgcaacaa caatccttgc 240  
cacatctaac aatacaagcc atcacaacgc aacagcaaca acagttccta ccagcactga 300  
accacctagc catggtgaac cctgccgcct ac 332

<210> 12307

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A6

<400> 12307

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tgggttcaaa gatgatgtgg tcacccacct ttttgctggt cttggtgctg gcttctttgc 120  
 tgtttgtggt gggtcccccag ttgatgtggt taagtcgaga atgatgggtg actcagccta 180  
 caaaagcact ctcgattgtt ttgtgaagac gctaaagaat gatggccctt tggcatttta 240  
 caaaggcttc ctgccaaact ttgcaagact gggatcttgg aatgtgatta tgttcttgac 300  
 attggagcag gttcaaaagc tgtttgtgag gaaagcgaca agctgaagat agagtttttg 360  
 cagtcagggtg gcgtacaatt gacgcacagg gtttttcttc tatagacaaa 410

<210> 12308

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-B1

<400> 12308

catcaagatc aacgtcacca acatgaacta agtcaaaatc atcaaactaa ctactacaa 60  
 ctcttagcac cgaatatact ccaactacat tatctattaa tcaaaccaag cttactattc 120  
 tgtatcactc ccaacatatc aacttctctc tatatatcta ttctatcttc atttccaaat 180  
 ccactctttc accttgctgg tattat 206

<210> 12309

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-B12

<400> 12309

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 tgtgnngaag tgggactgcg cttggtgagc tccctcctta ttttatatca cgagcagctc 120  
 gcttatcagg aagcgagtca aaagctgttc aggagcttga tgcagctact tccaaagaag 180  
 atgggccagt agcatcatcc cttaatcgaa ccaagcgttg gcttctctct cactcccaac 240  
 atctcaactt cttctctatc ttgattcttg cttcggttcc aaatccactc tttgaccttg 300  
 ctggtattat gtgtgggcaa tttggtgtgc ctttctggga gttcttggtt gctactttga 360

ttgggaaagc catcatcaag actcatattc agacactatt tatcgtgtcc ctgtgcaaca 420  
atcagc 426

<210> 12310  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-014-Q1-K1-B3

<400> 12310

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cnatccatcc aggaaacgaa aatcccctta tgtatataca atttgtgaca agttaccaac 120  
accagaagg tcaaatgagg ataagagtta ctacgatatg caggaaatgg gtagatgggtt 180  
ccactaatac cgaggaatta gttgaagggtt ttgaccagga aactgcagct gttgtgttgg 240  
caagatacat ctctttgaaa atggagatgg aggaagagtt cgatgcaacc cggtggttgg 300  
atagatctct catacgtctt tgttcaagat ttggggatta ccggaaggat gatccctctt 360  
catttagcct gcattcaaat ttctcattgt tccctcagtt tatgtttaat c 411

<210> 12311  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-014-Q1-K1-B4

<400> 12311

cagctctgct ccccgccgct cctctccgcg ccccttcac ccgatctcg gcatgggcgc 60  
ggccaccacc aacggctcgg cggagcaggc gtccgcgcc gtgccggcgc tcaagtctct 120  
catctacggc cgcacgggct ggatcggggg gctgctgggc ggcctctgcg ccgcgcgcgg 180  
gatccccttc gtctacggcg ccggcaggct cgagaaccgc gccagctcg aggccgacat 240  
cgacgccgcc gcgccaccc acgtgttcaa cgccgcgggc gtcacgggcc gncccaacgt 300  
cgactgggtgc gagacgcacc gcgccgagac catccgcgcc aacgtcgtgg gcacgctcac 360  
gctcgccgac atctgccggg gccgaggggt cctgctcatc aactaccca cgggctgcat 420



ctt

423

<210> 12312

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H5

<400> 12312

caggatccaa caggcaatcg cagcaggggtt gaagaattgg gtattcacat actgaaggcc 60  
cgctgggtgag aggtatggga gaagaaagga agctatagga tcttgcaagc attgtgggaa 120  
aatgggtctac gacaccttac atattataaa cacgatctat actcatagaa acaacaattt 180  
cttacattca accaactggc tgaattgaac tctgctgatt atttgcaaca tcaactacca 240  
ttcagtcagc tagctgatgc ctacccccag caatttcttt cattcaacca actggcagga 300  
ttgaactctg ctgcttattt acaacatcta caactaccac cat 343

<210> 12313

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F8

<400> 12313

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ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtacgctg cttcgtcggc 120  
ggcctcgctt gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180  
gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240  
gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaagcggc 360  
ggcgggtgggt acggtggt 378

<210> 12314

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G1

<400> 12314

cccagctctt caaccatata ggcttcaaca agcaatcgca gcaagcaaca tacctttgtc 60  
ggccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg tacaaccat 120  
cagggcaciaa cagctgcagc aactcgtgct acctctgac aaccaagtag ctctggcaaa 180  
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 240  
ccctgctgct tatttgagc aacaactatt accatttagc cagctagcta ctgcctactc 300  
tcagcaaciaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 360  
gcagcagcaa atactactac catttagcca gctagctgca gc 402

<210> 12315

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G10

<400> 12315

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gtagaaataa cgagtgcag tagtaaattg tcatattgca tcagttgata agttgggtatc 120  
tccggtgcaa cttgcttgag tagttgagtt gttgccaa caacaactc cacttgaacc 180  
acatattctt aaacattact agaacatcga agagacacac tacgcttaca caccgtcgtg 240  
gaagaataat tgaatagccc caataccaca gtgatcgtga tctataaagg acaacaacat 300  
gccgttcaag gcccatttta atattaaaag gttttttaag tttaactact aatgggtttt 360  
cctaagtttt tttcaacaac cattgctttt gccggttttt tttttgggat ttt 413

<210> 12316

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G11

<400> 12316

ggggatttga caaactcgac ttccggatct cgatcaccaa agttcgcccg gatcgaggt 60

gggtcattca aggccgtaac ctgtacttag ccggtatgca catgtcgaag aacctctacg 120  
 ggaggtccac ccacaagaca gagggcctga tcaaattcta ccactaccac cacttcataa 180  
 acgtcattga acagccttgc cctgagtttg tgccaatgcc agtcaacctg accaagacga 240  
 tgttccaagg gggtccctat ctataccacg ataacattaa actattggc 289

<210> 12317

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G12

<400> 12317

aagagttctt cagcgctcc aatgtttatg cctgcccgat ttttccttga acccatgccc 60  
 cttttactaa cccgtgaccc aaacgctggc ggggagatgc cgatgcttcc tatggcagca 120  
 ggtataggtg gtggcgccgg tgggctccac ctcaacggcg ccgccctgtt cggcaatccg 180  
 atggccgcgc cccagcccat gagcttctac caccagatgg gcacggggac tgcttgcgct 240  
 tgcggcttcg atgtttctgc ccccgaaaat aagccctcct cgatggtgtc gcaaaaagac 300  
 gaccaggcta atggcgctga gatctcgtcg atgatgtccg tggccggccc aaggccttgg 360  
 aacaacaaca accattaaaa atgattgcgt gtggaagtac tg 402

<210> 12318

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G5

<400> 12318

caattcaaca agctacttta catgcttcta gtcctaggca acttagcaat tgaggataag 60  
 cacattcatc agaacatgca catgagcgtc aacttgcttg tttccctact aaagaaaaac 120  
 tgacagaatg taagatgcat gtacatcaag agcaccatga ataatccata cagcgtgttc 180  
 taagtctgct cttttgtgaa gtctgctaag ttctggcacc gaggttttat tgaattaaac 240  
 tcttgttaaa agtatgtttt tgga 264

<210> 12319

<211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-G7  
  
 <400> 12319  
  
 cccactcgtc cgcccacgcg tcctaataaa aaaaaaaaaa aaaaaaaaaa aaaagaaaga 60  
 ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaagggcg cccttttttaa agaatccaat tttacttacc ctcccttcca 180  
 acttaatact ttttttatag tgtaacctaa attaaattaa tttcccttct ttttaaaact 240  
 tcttaattgg aaaaaccttg gctttaccaa attaaatccc ttgaaaaaa atccccctttt 300  
 cgcaagttgg cttaatacca aaaagccctt aaccaatcgc ctttcacaaa attttc 356

<210> 12320  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-G8  
  
 <400> 12320  
  
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 gggcttatta caggacaacg tgccttcgat ctagctcgtc ttgctaatga tgatgatgtc 120  
 atgcttcttg actgggtcaa ggggttgctc aaggagaaga aactggagag tctggtcgac 180  
 gaagatctag accacaacta catcgatgtc gaggtggaat ctctgatcca ggtggcgctc 240  
 ctctgcactc agagcaaccc catggaacgt cctaagatgt cggaggttgt gaggatgctt 300  
 gaaggcgatg gtctcgccga gaggtgggag gagtggcaga aggtagaagt ggtacggcaa 360  
 gaggttgaac taagccctca tcgaacctcg gaatggattc tcgacttcac cggcaacctt 420  
 c 421

<210> 12321  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-H10

<400> 12321

tcccccttctc taccactctc tcctcccact cttcctaata aaaaaaaaaa ttttttaaaa 60

aaaaaaaaaac aaaaaaaaaa acaatgtcat tatttaaata tattatacca tatcaaaaat 120

acaaaaaata aaaaatcaaa cataataaaa tattttatct tctttaattt tttccaattc 180

acttttcact tcctttacaa tttacaac 208

<210> 12322

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H11

<400> 12322

gtgatggtgc tgaatatcca tgcgatactg agtctcttga tgacgatcta gatgatagag 60

gtaaggaaga tgaatttgga gattcaacta tcaggaagtc tttcagttat gggctctctgc 120

aatctgacaa ctatgttggt ggcctagttt atgcccacgc aaagattggt ggggagcatg 180

aggaccgat atattatagt aaccgaaaaa ctgatgtcag tttccatgta gagaaaggat 240

tgccatcaac cacagagaat gggttgctaa ctgctaagcg cagtatactt ccttgagaaa 300

agaggaaact gagtttacgg tcgctgaagg ctaaaggatga acctctcttg aaaaaggcat 360

atggggaaga gggaagtgat gatattgaat atgatcgacg cttgctaaca tcatttgatg 420

aaatctgt 428

<210> 12323

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-H2

<400> 12323

cccaacacca cctcgctctg gatcttcgta gcctccgctg cgtcgagcat cgagtcaggt 60

cggcctactg cggaaagtac aaggatgagc tcatcaagaa tgctgcctac attggcacc 120

ccggcaaggg tacccttgct gctgatgagt cactggcac cattggcaag cgcctttcca 180

gcatcaatgt cgagaacgtt gaggagaacc gccgtgccct ccgtgagctc ctattctgct 240

gccctggtgc tctccagtac atcagcgggtg tgatcctctt cgaggagacc ctgtaccaga 300  
 agaccaagga tggcaagcct tttgttgatg tcctcaagga gggaggcgtc ctccctggca 360  
 tcaaggttga caagggcacc attgangttg ttggcactga 400

<210> 12324  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H3

<400> 12324

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
 aaagaataaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaataa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaactaaa ttaataaaaa aactttttaa ttcattccatt ttaatactcc cttaataaaa 240  
 aacatttttt tactttattta atattaccaa aa 272

<210> 12325  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F7

<400> 12325

ggccaaaaag ttgctcgccc agcagccagc gccttcacca gatcgagcaa aacggctgag 60  
 ctgagctcga cctaccacta cctcccgctt ggcgcctggg actggcaacc ggcgtgcgca 120  
 gaatgctgcc caccgggtgc aggtgcagcc tcctctcttg cctccgccgc gacaagggcg 180  
 aggcgggccg aaccgacccc cgcgtcgcg agagacccac cgcgtcgctg ctcggaagg 240  
 gcagcgccgc ggctcggcgg ttcgcgtggg ccgagatcga gtccgtcacg gcggggttct 300  
 cgtccagggg catcgggccag ggcggcttca gcaccgtgta cctggcctgc ctct 354

<210> 12326  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E11

<400> 12326

cccacgcgtc cggcgtcaa gttctcgcgc ccacagccaa atttttctcc actcaatggg 60  
ggcataagct gcactgcagc catggacgcc agcggagccg gtagcaaggc gaagaagggg 120  
gcggtggggc gcaaggctgg cggccccagg aagaagtcgg tgcgcggtc cgtcaaggcc 180  
gggctgcagt tccccgtcgg ccggatcggg cgctacctca agaagggggc gtacgcgcag 240  
cgcgtgggca ccggcgcccc cgtctatctc gccgccgtgc ttgagtacct cgccgccgag 300  
gtgctggagc tggccgggaa cgcggcgaag gacaacaaga agacgcgcac cgtcccgcca 360  
cacttgctcc tggcgattcg taacgacgtt gagctcggca agctgctgtc t 411

<210> 12327

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E12

<400> 12327

tccccgtcca cccaatcett ccgccaatcc ttccgaacaa aaaaactaaa tttaaaaaaa 60  
caaaaaataa tacaataaat caagaaaatt atactacact gcagacaata aaccacaaac 120  
aaaccatata caaaagctaa aaaagatact attaaacaca aagctaactt acccatcaag 180  
aaatctctat ctccatccat caaggctcct cttcactttc tcttaaacca tatcgttcgc 240  
tacctcaaaa atgatcaata cgctcaac 268

<210> 12328

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E2

<400> 12328

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cgcgtcgtgt gcctggctct gtcagctgcc agcgctcttg caatgcagat gccctgcccc 120  
tgcgcgggggc tgcagggtt gtacggcgct ggcgccggcc tgacgacgat gatgggcgcc 180

ggcgggctgt acccctacgc ggagtacctg aagcaaccgc aatgcaaccc gcttgcggcc 240  
gcgcctact acgcccgggtg tgggcagccg aacgccatgt tccagccgct ccggcaacag 300  
tgctgccagc aacagatgag gatgatggac gtgcagtcg tgcgcagca gctgcagatg 360  
atgatgcagc ttgagcg 377

<210> 12329  
<211> 380  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-E3  
<400> 12329

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aggcctcctt gcgcttcttg cccttttagt gagcgcaaca aatgcgttca ttattccaca 120  
gtgctcactt gctcctagtg ccagtattcc acagttcctc ccaccagtta cttcaatggg 180  
cttcgaacat ccattccgtgc aagcctacag gctacaacta gcgcttgagg cgagcgcctt 240  
acaacaacca attgccaat tgcaacaaca atccttggca catctaacc tacaacccat 300  
tgcaacgcaa caacaacaac aacagtttct gccatcactg agccacctag ccgtgggtgaa 360  
ccctgtcacc tacttgcaac 380

<210> 12330  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-E4  
<400> 12330

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gtcttgcgct ttttgcgagc gcaacaaatg cgtccattat tccacaatgc tcaattgctc 120  
ctagttccat tattccacag ttctccacac cagttacttc aatggccttc gaacacccag 180  
ctgtgcaagc ctataggcta caacaagcga ttgcggcgag cgtcttacia caaccaattg 240  
ccaattgca acaacaatcc ttggcacatc taacaatata aaccatcgca acgcaacagc 300



aacaacagtt cctaccagca ctgagccacc tagccatggt gaaccctgtc gcctacttgc 360  
aacagcaact gcttgcaccc aacccacttg ctctagcaaa cgtagtttca aaccagcaac 420  
aacaacaact gcaacaattt tt 442

<210> 12331  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E7

<400> 12331

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ttctcttcg gaccagctcc aatgctcttg gtgtatcttg ccactctcac caatcaagtt 120  
ttcatgtctg atctctacat tcatatccca actgccttcg atcccttctc tgaatccaat 180  
tcttgtcact c 191

<210> 12332  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F1

<400> 12332

cccacgcgtc cgctgtgtg gtgcaaaact ctgaataaaa cctgaataaa acctgatgga 60  
ggacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaacaaatt aaaaactcta ttaataacc 228

<210> 12333  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F10

<400> 12333

cggacgcgtg ggtagcaaca tagaaagcac aatagtgtac caacaatggc agccaaaaga 60

tttgctcct tatgctcctt ggtctttctg caagtgtgc tacggcgacc attttcccgc 120  
 aatgtcaca agctcctata gtttcccttc tttcccccgtta cctctcacca gtgttgtctt 180  
 cagtatgtga aaacccaatt cttcaaacc tacaggatcc aacatgcaat tgcacagggc 240  
 atcttacctt tatcaccctt ggtccttcaa caatcatcag ccctattaca gcagttacct 300  
 ttggtgcatt tattggcaca aaacatcaag gcacaacaac tcgtgctagc aaaccttgct 360  
 gctactctc agcaacaaca gttacctttg gtgcatttgt tggcacaaaa catcagggca 420  
 caacaact 428

<210> 12334  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-013-Q1-K1-F11

<400> 12334

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 ggctcgttgc cctcgtcttc ctggctctcg ctgcgagcgc cacctccacg catacaagcg 120  
 gcggctgcgg ctgccagcca ccgccgccgg ttcattctacc gccgccggtg catctgccac 180  
 ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 240  
 tccacctgcc accgccggtc catgtgccgn cgcgcgttca tctgccgnog ncacctgcc 300  
 actaccctac tcaaccgncc cggcctcagc ctcatccca gccacacca tgcccgtgcc 360  
 aacagccgca ttcaagcccg tgcc 384

<210> 12335  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F12

<400> 12335

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 caccttttat gttttttttc attttagttc cttttaatgt ctcttgtttt tttacctgga 120  
 cgctactttt ctttgtcagc ataatgcata tacaagtttt atcatgtaag taatctttca 180

attttcctgc tgcataatggt gttttccact ttttcccatg atcattaata ctatacatc 240  
tattcctatatt taaatccttc ctttttaaatt tattgaaact tttgccttta attaaaattc 300  
taat 304

<210> 12336  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-F3  
<400> 12336

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agatgtaaac tttagggatg aagtcctccc aagaataaaa aaacttgatg acaatgcagt 120  
gcaaataatg gcaatccaag agcactcata ttatggaagc tttggatacc atgtaactaa 180  
tttttttgcg ccaagtagtc gttttggtac ccagaagaa ttgaagtctt tgattgatag 240  
agcacatgag cttggtttgc tagttctcat ggatgtggtt catagtcatg cgtcaagtaa 300  
tactctggat gggttgaatg gttttgatgg tacagataca cattactttc acagtgggtc 360  
acgtggccat cactggatgt gggattctcg cctatntaac tatgggaact gggaaatttt 420  
aagatttctt ctc 433

<210> 12337  
<211> 258  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-F4  
<400> 12337

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gacgtcaagt acatacgtg ctccaactgc gccaaagtgt gtccaaagga taaggctatc 120  
aagcggttct tggtagaggaa cattgttgag caggctgctg tgagggacgt gcaggaggct 180  
tgtgtgcatg atggtatcat agtcgccctt attagttgca taatttagtc ggatgatcta 240  
tttatagggt atctagag 258

<210> 12338  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E1

<400> 12338

cagctagcaa catagaaagc acaatattgt accaataatg gcagccaaaa tatttttggt 60  
 cgttatgctc cttgggtcttt ctgcaagtgc tgctacggcg agcattttcc cgcaatgctc 120  
 acaagctcct atagcttccc ttcttcccc atacctctca ccagcgatgt cttcagtatg 180  
 tgaaaatcca attcttctac cctacaggat ccaacaggca atcgcgagcg gcatcttacc 240  
 tttatcacc ttgttctctc aacaatcatc agccctatta cagcagttac ctttggtgca 300  
 tttattggca caaaacatca gggcacaaca actacaacaa ctctgctag caaaccttgc 360  
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<210> 12339  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C5

<400> 12339

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 gtgaccgcgg tgtcttcgcc agggcctctg gggactacgc cattgtgatc agccacaacc 180  
 ctgacaacgg cacatcgagg attaaagtgc cctctggcgc caagaagatt gtccccagca 240  
 gctgccgtgc tatgattggg caggttgctg gtggaggcag gactgagaag ccgatgctca 300  
 aggctggtaa cgcgtaccac aagtaccgtg tgaagaggaa cagctggccc aaggtgcgtg 360  
 gtgtggccat gaaccctgtg gagcatcccc ac 392

<210> 12340  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C6

<400> 12340

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gacaccgtgg cgccgttcga cccgttcagc gacgccgggc tcgggtggac ttttgaccgc 180  
gccgaggcca acaagctgat cgaggcgctc aggcactgcc tcgacacgta ccggaactac 240  
gaggagagct ggaagagtct ccaggcgcg cggcatgtgc aggacctcag ctgggaccac 300  
gcggctgagc tctacgagga cgtccttgtc aaggccaagt accagtgggtg aacccttcgc 360  
ccttcgcata aatatcttcg gtttgatccc attgtacata gcgcgtttga cggctctcgtt 420  
gaagaacttc ata 433

<210> 12341

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C7

<400> 12341

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tcattttcca ctccaacgtc acattccaat acgcgaccca taacttgctc ataataccgg 120  
atcacattta ttccataatt actgctccca cctaccccaa gacaatacta cagttctcct 180  
acattttaca tatctatacc tcgaactctt aatgcactaa gacaatcact cacttaatca 240  
atgcaacttt 250

<210> 12342

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C8

<400> 12342

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ttatcaacaa caatgtcatc gaggagggcc ttgggaagca taatatcatc tgcacgagg 120

accttgttca cgagatcatg acggttggcc cacacttcaa agaggccaac aacttctct 180  
ggccattcaa gctgaaagcg ccccttgggtg gcctcaagaa gaagaggaac cactatgtgg 240  
aggggtggcga cgctggcaac cgtgagaact acatcaacga gctcatcaag aggatgaact 300  
aggctctctt gtatcctgtg agaatgcatt cgatgtcggc atggatatgc aattttgttc 360  
catggctgtc atacgtcacg acttcaacta ggaaatgggt cctgtttatg tttgca 416

<210> 12343  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-C9

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ggaatcagaa aggaattaca tatttgggtgg gatttccagt gttgctgcta atgcatcaat 180  
aaaggcactt gctcaaatga agtcaataaa cttgttagga gtccagcaaa tatgcaagaa 240  
ttcgatagct ctggacaggc tcttgcagcc ataccctcaa tagatagtga agcagtccaa 300  
cagcgattgg atcgcgttcg aacgttctat gagttgttaa atttgccttt tgagtctttg 360  
cttggattca tcgcagaaca tgaatatntg ntntctgcta aagaatacct gagtgttcta 420  
aaggtcaatg t 431

<210> 12344  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-D1

<400> 12344

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cccgcgccca aggggttccg gattgtcgct tgccgcgttc ccaaaaaagg ccctcaagtc 180

ggccgcattg aagatggctt tacctcgntc cgtggctcca acaagacact cggtaacttc 240  
 gtcaaaggaa ccccttgatt gtctgatgaa gacctacggc ttcctcactc ctgagttctg 300  
 ggccgagacc aagtatgcca agaccccggt ccaggagttc accgacctct tggctaagcc 360  
 gacaaagggg cttctgatcg 380

<210> 12345  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-013-Q1-K1-D11  
 <400> 12345

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 cctttctccc tactctccgc aacaacaatt tcttccattc aaccaactgt ctacactgaa 180  
 cctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 240  
 tcaacaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 300  
 gcagcagcaa atactactac catttagcca gctagctaca gcaagccgtg ctctcttctt 360  
 gacacaacaa caattgctgc cgttctacca gcagtttgcg gctaaccccg caacctctt 420  
 acaactacaa c 431

<210> 12346  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-013-Q1-K1-D12  
 <400> 12346

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 cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
 gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgagca 240  
 agcaacatac ctttatcgcc ctt 263

<210> 12347  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-D2  
  
 <400> 12347  
  
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 gaacggcgct ggctaccgga agagccgagc cggaccaagt ctctctgtcc ctcacctcgt 120  
 cgccgatgga gggcgggcgac tcgtccggcg cggcgcccg cggcgccgtg ggcgcggcg 180  
 gccaaagtggc ggagcgacgc gtcgcgggcg ttccagtact acctggaccg ctgcagccct 240  
 cagccacgg ggcggtggct cggcacgctc gccgcccg ccatctacgc gctgcggggt 300  
 tacatggtgc aaggcttcta catcgtcacc tacgggctcg ggatctacct tctcaacctc 360  
 ctcatcggtt tcctctcccc catggtcg 388

<210> 12348  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-D3  
  
 <400> 12348  
  
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 acctttcgcc atcagtcac ctatcatcat ccgttcaagt gccgtccaca attcatctgc 180  
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 accca 245

<210> 12349  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ccctcgccct cgccctcgcc ctgcgcgcgg aaccagacca acagaacgcc aagcagcatc 180  
 gccagcccg cgtgctggtg cagtcgacgt gcaactccac cagcttctac gacctctgca 240  
 tcgcccgcgt cgccgcccgc cccgccagct ccaccgncga cgtcccgggc ctgggcggca 300  
 tcgccgtgtc cgccgcccga aacaacgcct ncggcacggc cgncttctc ggcaacgcc 360  
 gcgacgccgc ggccaccccg catgcccacc gcgcgcgttc ctgcccgagc aggcctacca 420  
 c 421

<210> 12350  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gagnncatgt ctctccgttg cgggtgtcaac tttcttggaa agtgaagcnn agatgatttn 180  
 tngctgctgc taactaanng atggatgccc aacgacctcn nccaaat 227

<210> 12351  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D6

<400> 12351

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 tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac caactgtcta 180  
 cactgaaccc tgctgcttat ttgcagcaac aactattacc atttagccag ctagctactg 240

cctactctca gcaacaacaa cttcttccat ttaaccaatt ggccgcactg aaccccgctg 300  
 cttatttgca gcagcaaata ctactaccat ttagccagct agctgcagca aaccgtgctt 360  
 ccttcttgac acagcaacag ttgctgcctt tctaccagca gtttgcggct aaccccgcaa 420  
 cccttttaca actacaaca 439

<210> 12352

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D7

<400> 12352

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 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggctcg 180  
 ctcgctcgag aagttcctgc aggagcgcat caaggctgcc gtcgacaagg ctgtcaacct 240  
 cggcgactcc gtcaccatct ctcgcgagaa gaccaaggtc accgtcacct ttgacggacg 300  
 cttgtccaag aggtacctga agtacttgac caagaagtac ttgaataagc acaacgtgcg 360  
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<210> 12353

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D8

<400> 12353

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 ctcgtacaga taagctcggc tcctgtatac ctgtaccagg acgccatcat gtttccgctc 180  
 tggaacttca acgcctacat ctccatctac cacatcaagg gctgtacacg ggtacagctc 240  
 gtcagctaca acgctaccac gtcttttagac gacctgctct gacctgcgct gctactcatc 300  
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<210> 12354  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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tcgtcgccca tggctggcct cctctataca ggcaccgcca cccctgtag cttccctct   180
gcctcgggcg ccccttcttc ttgtacctcc agcagcaagg atttaacccc ccatggcgctg  240
tggccttgcc tgctccacgg tctgcagcag ccctgcgctc acctnccatg gaaaaccagt  300
ccgcttctcg cctccggcaa gccgcatttg ttccctgcgc gagctcgctg cggggcgccc  360
tagccact                                         368
  
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<210> 12355  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-C4  
  
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tctaacacct tggtcacgag atcatgactg ttggcccaca cttcaaagag gccacaact   180
tcctctggcc attcaagctg aaagcgcccc ttggtggcct caagaagaag aggaaccact  240
atgtggaggg tggcgactct ggcaaccgtg agaactacat caactagctc atcaagagga  300
tgaactaggc tctcttgat cctgtgaaaa tgcattctat gtcggcatgg atatgcaatt  360
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-A9  
  
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 atgtgttgct aacgcgacaa ttttccctca atgtcacaa gtcctatat agttcccttt 180  
 ttccccatat acttcacatc atttatagct tcagtatgtg aaaacccatc tcttcaacca 240  
 tataggcttc aacaagcaat cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa 300  
 caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc acaacagctg 360  
 cagcaactcg tgctacctgt gatcaaccaa gtagctctgg caaacctttc tccctactct 420  
 ccgcaacaac 430

<210> 12357  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-B11  
  
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 agtgctgcta ctgtaccat tttcccgcaa tgctcacaat ctctatagc ttcccttctt 180  
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 at 242

<210> 12358  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-B12  
  
 <400> 12358  
  
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caagtgggag acgaatctca tgaccaggct gaagaagaag cgctgaaga tgatgcagag 120  
atccaactaa gctaataaggc atagatccta gtagtctcat cataattgtg tatcgtggct 180  
tcgatacatg agtgcacga tagatgtaag attctattta tgcataagacg ttacgatatt 240  
agttcaatgg ctccgtttgc aaacctgcac ttgataggcc atctatcctg cactctagct 300  
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ggagctttat gaa 373

<210> 12359  
<211> 350  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-B2  
<400> 12359

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tgcgcggggc tgcagggctt gtacggcgct ggcgcgggcc tgacgacgat gatgggcgcc 180  
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gcgcctact acgcggggtg tgggcagccg agcgccatgt tccagccgct ccggcaacag 300  
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<210> 12360  
<211> 389  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-B7  
<400> 12360

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agctcctata acttaccttc tcccccgta cctatcacca actgtgtctt cagtatgtga 180  
aaacccaatt cttcaaccct acacgatcca acatgcaatc acagctgaca tcttaccttt 240  
atcacccttg ttctccaac aatcatcagc cctattacat catttacctt ttgtgcattt 300

attgtcacaa aacatcatgt cacaacaact acaacaactt gtgctagcaa accttgett 360  
ctactcttat caacatcatt ttcttccat 389

<210> 12361  
<211> 414  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-013-Q1-K1-B8  
  
<400> 12361

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catccttcaa gtgctgtgaa tacttcaa atcaactgggg cagtagagtc cgctgatgat 180  
gatttgcta gtgtgatgac gtgcgccaat tatctgaagc tgcccccta ctccacaaaa 240  
gaaatcatgc gcaagaagtt gctttatgcg atcctggaag gccgaggatc atttgatctt 300  
tcataagaaa tatacaatat ccgaactaac atacaggggt cagttttatt ctggagattt 360  
agtttcttgg tccatgtata aactgagtt gaggttacca gctcactcag caaa 414

<210> 12362  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-013-Q1-K1-C1  
  
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tcaccgcca ggatgggaag gtttcgcagc tggagcacgt cttcatcaga ggaagcagag 240  
tgagatttat gattatacct gatatgctca agaacgcttc catgttcaaa cgcttggaag 300  
cgagaattat gggcaaagga tcagctattg gagttgggcg tggacgtgca gttgcaatgc 360  
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<210> 12363  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-C10  
  
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 ggactactgg atcgtgaaga actcatgggg cagcagctgg ggcgagtccg ggtacgtgag 180  
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 cccgttgaag gagggcgcca acccgccgaa ccctggcccc agcccgccgt ccccgacccc 300  
 ggcgccccgc gtgtgcgaca actactactc gtgccctgac agcaccacct gctgctgcat 360  
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<210> 12364  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-C12  
  
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<210> 12365  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C2

<400> 12365

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gcccttgtga actacggcaa agactacggc cgctcgtcg tcatcgtcga tgtggtcgac 180  
cagaacaggg cacttgtgga cggccctgat atggtcaggt gccagattaa cttcaaacgg 240  
ctctcactta ccgacatcaa gattgacatc aaacgtgtcc ccaagaagtc aaccttgatc 300  
aaggctatgg aggaagctga tgtgaagact aagtgggaga acagctcatg gggcaagaag 360  
ctgattgtcc agaagaggag ggctgcactc aatgactttg acaggttcaa ggtcatgctg 420  
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<210> 12366

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C3

<400> 12366

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tatgatcact aaacctatct ttatactata tattagaacc tgtcattaat tttcaagcaa 180  
gacgacggtc tttttataac caacattcat acttacaagt acacttaatt ttcttaaaaa 240  
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<210> 12367

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G4

<400> 12367

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caaatttcgc taatccaaaa ctcaatcctc actctttaa atactacaag attcctttat 120  
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<210> 12368

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G8

<400> 12368

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tccgcagccg gctggcctag ctacctcacc tcacctcacg caggcacact gcacacacac 180  
ccatggtggt ggcggcgatg cggcgccgt gcgctgtgcc agcgtgctg gtggcgccgg 240  
cgacggcgac gctagtgttt ctgctgtgc tgtcacgcgc gagcgcgcag ccggtgccgt 300  
ccccggcgcc ggcgcggggc cccgcggggc ggaccgggat cgactcggcg tgccctgaact 360  
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<210> 12369

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G9

<400> 12369

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aaagtggaaa tggttttagg aggacctgca acatccctg ttacttcctc gcacttttgg 180  
ataaatatgc ggtagccctt tgagggtgagt gggagtgggg atgcttcgcc tatgctgttc 240  
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gtactttatt ctttgtgctt ggtaccctaa atgtcaattc ctaattgaaa atacattttt 360  
tttgtagtgt taagatttgt aatgtgtcat ttgattatgt taaatattaa aca 413

<210> 12370

<211> 235  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-H11  
  
 <400> 12370  
  
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 ctcaattgct gctaattgcaa atcacgtaca atttatacta gcaatgactt actactgctt 120  
 tgaaactcta tctattcaag cctaccttct aaaactggca cttacagaca gcacattacg 180  
 actatcgaat ggccaaatgc aacaacaatt cttggccaat ttacaaaatg aagca 235

<210> 12371  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-H12  
  
 <400> 12371  
  
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 cggcggggca tcctccaacg aaagcatcct caagtcagtc gcgcagatct tcggctgccc 180  
 tgtcttcaca gtccagagac ctgattcggc atcgctgggt gcagcgctga gagctgcccc 240  
 cgggtggctg tgcaacgcgc aaggtagctt cgtccccatc tcgtgcctgt accagggcaa 300  
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<210> 12372  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-H2  
  
 <400> 12372  
  
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accgcctccg ttctatatgc cgctccggtt ctatctgccg ccgcagcagc agccgcagcc 180  
atggcaatac cccactcaac caccgcagct aagcccggtc cagcagttcg gatcctgcgg 240  
cgtcggcagc gtcggcagcc cgttcctggg ccagtgcgtc gagttcctga ggcaccagtg 300  
cagcccgggc ggcagccctt acggctcgcc acagtgccag gcgctgcagc agcagtgcctg 360  
ccaccagatc aggcaggtgg agccgctgca ccggtaccag gcgacatacg gtgtggctct 420  
gcaatccttc 430

<210> 12373  
<211> 244  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H3

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cgctggggcc acggacgacc actccctcca caacgccttc agcacctacg gcgaggtcct 180  
cgagtccaag atcatgctcg atcgggagac gcagaggtcc cgcggttctt gcttcgtcac 240  
cttc 244

<210> 12374  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-H5

<400> 12374  
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tggtttccca agatgtcttc tccaagcaag cgccgggaga tggacctcat gaagctgatg 180  
atgagcgact acaaggtgga tatggtgaac gatgggatgc aggagttctt tgttgaattt 240  
cgtgggccta acgaaagcat ttatcaatga tggatttgga aggtttgaag agaactggca 300  
aattcctgtt cttaccaatt ccatttgatt gggttcatta ataagatata ttacccaaat 360

gtcgatgaaa tgtctggttc agtctgtttg gatgtcatta accagacatg gatcccaatg 420  
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<210> 12375  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 12375

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 atatgctctg attaaatggg tggcccatgt agtttacagc aaagggtgcc acctggatca 180  
 tcatgttcac catgtacgaa accgtattca caagaaatta ttttccttgg ctttggttggc 240  
 aactgcatcc catgttatat gataattnga tattgccata cgacacttga gtatccatgt 300  
 agagaca 307

<210> 12376  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 12376

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 agtatgaatt tctgatcatg tcttatgtct gtactctgaa tcaactatgt atgagatctc 120  
 atctcctttc tcctactgaa tgaatgaatc attattggct aaaaaaaaaa aaaacaaaaa 180  
 aaaaaaaaaa aacaaataca aaaaaaaaca aacattcaaa caaaaaaaaaa gcgagccgcc 240  
 cactctaaaa gaatccaact tacttaccct ttcttgctac attgtacctc tttt 294

<210> 12377  
 <211> 261  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A11

<400> 12377

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ctattttttt tatttttttt tatatgattt tttttaaaatt tttgtccccc tttttttttt 120  
tatttttttt tttctttttc atatttttat tctttttatt cttatttctt ctttttccct 180  
tctttttata ttttttcttt ttcttttcat tattatatta tatttcttcc tatataattt 240  
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<210> 12378

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G2

<400> 12378

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gcccttggtg tttcaacaat cgccagccct atctttggtg cagtcattgg tacaaccat 120  
cagggcacaa cagctgcagc aactcgtgct acctctgatc aaccaagtag ctctggcaaa 180  
cctttctccc tactctcagc aacaacaatt tcttccattc aaccaactgt ctacactgaa 240  
ccctgctgct tatttgcagc aacaactatt accatttagc cagctagcta ctgcctactc 300  
tcagcaacaa caacttcttc catttaacca attggccgca ctgaaccccg ctgcttattt 360  
gcagcagcaa atactactac catttagcca gctagctgca gcaaaccgtg cttccttctt 420  
gacacaacaa c 431

<210> 12379

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E2

<400> 12379

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gcaagagcgc ttagcttag agcattctca tggattgtct tgcaccgaaa tgtgtgtcct 180  
gatgagtaca ctttttttgg ttagtctgtct caagttcaga gcgttatgcc atgtattcag 240  
acctgattag tacactcttt tctaaaagcg 270

<210> 12380

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E3

<400> 12380

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ggaaaattta aaaaagggcc ttccctctta tagcttccaa tcttactttc cttacatac 120  
aacttcatac ctcttctata gtatcaccta aatccaattc actgcccttc gt 172

<210> 12381

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E4

<400> 12381

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gcccgtgccc gtcgacgctg cgttcttgcc ggccgcgccc cacctccgcc ctctctctct 180  
ccagggggat cggatacgcc acagtctgct cgatggtgct gtgggtcttc ggctactgat 240  
ccctcatctg gaaccccgcc ttcaactatt tctacaatat cctcggctat atcaatggct 300  
acaagcgcac ctttaatc 318

<210> 12382

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-E8

<400> 12382

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ggaggaggaa acggtggcgg tgacggcgcg ggtggtggtt acggcagctc cgggtgctggc 180  
gatgagcttc atggcgtatc tggtagtggc gacggaggcg aggtcgggta taatggcaag 240  
ggaccctcca gcggtggact ctggagcaag cgtggccat 279

<210> 12383  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F1

<400> 12383

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gcgcttgccg cgagcgcctt acaacaacca attgcccaat tgcaacaaca atccttggca 120  
catctaacc tacaaccat tgcaacgcaa caacaacaac aacagtttct gccatcactg 180  
agccacctag ccgtggtgaa cctgtcacc tacttgcaac agcagctgct tgcattcaac 240  
ccacttgctc tggcgaacgt aactgcatac aatcaacaac aacatctgca acagtttatg 300  
ctagtgc 307

<210> 12384  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F3

<400> 12384

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ctgtgagccc tgctgccttc ttgacacagc aacaattggt gtcgttctac ctgcacgctg 180  
cgcctaacgt tggcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt 240  
tgacaaacc agcagcgctc taccaacaac ccatcattgg tggcgccctc ttttagattg 300  
ctaattgagt atagttcaat aataaagttt ttttgatg 338

<210> 12385  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12385

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tgagtcgccc cacagacgtg cctgatactg gattgctctg tgaccttctt tggctctgac 180
cttctaataga agcaacagga tggggcataa atgatcgagg tgtttcatat acatttggtc 240
ctgataaagt ttctgaattc cttgataagc atgatttgga cctcatctgc cgagcccatc 300
aggttgctga aaaatgatat gagnntttcg ctagccggca aactgttacc atgttttcaa 360
gcccttacta ctggggagaa tttgataacg cttgtgcc 398
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<210> 12386  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F7

<400> 12386

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actaagagtg aaaaggggga tgtggatgat cctgacaatg caagcaatgg ataatctctg 120
cagacgcata atctgctacc gacagtaaata ggtgatatgg acgagcaatt agaatatgct 180
acaggaagtg ctgcaagttg tgaagcacia gtgtatgcat atatgtgtct caaggaaagt 240
ttgaaccaat gcaattcatg gaatgaat 268
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<210> 12387  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F8

<400> 12387



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tcattattcc ccaatgctca ctgctccta gtgccattat tccacagttc ctccctccag 180  
ttacttcaat gggcttcgaa caccatctg tgcaagccta caggctacaa caagcgcttg 240  
cggcgagcgt cttacaacaa ccaattgccc aattacaaca acaatccttg gcacatctaa 300  
ccatacaaac catcgcaacg caacagcaac aacaatttct accagcacta agccaactag 360  
ctgtggtgaa ccctgtcgcc tacttgcaac agcagttgct tgcaccaac ccacttgctc 420  
tgg 423

<210> 12388  
<211> 253  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-012-Q1-K1-G1  
<400> 12388

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accagcgtc agtcaactag ccatggtgaa ccctgccgcc tacctacaac agcaacaact 180  
gatttcactt agccctctcg ctgtggttaa tgcacctaca tacctgcaac aacagttgct 240  
gcaacagatt gta 253

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<211> 419  
<212> DNA  
<213> Zea mays  
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<400> 12389

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gaagcttctt gccagaggc tgaaggaaca gagagaccgc cggagcgaga gcttggccaa 180  
gaggaggtcc aagctttctg ccgccgcaa ggcttctgct gccacctctg cttaagaatg 240

ttcagtgttt tgggatcttt gtaagggtcta tcttgtaacg gcaaaaagtgt tttgggatct 300  
 ttgtaagctc catagttcac atcacttaag tgtttctgct agtagtggat ccacaactat 360  
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<210> 12390

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G12

<400> 12390

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aatttaaaaa aataccaa 78

<210> 12391

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C5

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cagcagcatg gccgccacca ccaccaaccc aggcagggcg gcggggccctc gtgcagtgtc 180

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<210> 12392

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C6

<400> 12392

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gccctggtga tctttgctgc cactgccggt gcttcttctt gttatttctt gtccaagcta 180

gtagggaaac cactggtctt ctcgttgtgg ccagacaagc tcacgttctt ccaaaagcag 240  
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ctgcccataa ctttcatcaa tttttcttca cctatagtgg gtgtgccata ccatactttc 360  
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<210> 12393  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-012-Q1-K1-C7

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ggttgattca accaacaaga tttaccgcga tattgtatat gaggaactat ccaaagcaga 180  
agctcctgat caatgtgctg acacaagata actgcacacc tagagaacac cttttacaag 240  
gacttaagcg ccgttccatg ggaaaagggtg gatgttaagt ttcacaatag taaagtaaga 300  
tctgcagcac atagtgtgat tcaggtaaaa gatcctgtga tgcatagcga aggtgccgac 360  
gtcatacagc atatgattga ccaatttatt ctatagtaaa agccctggtc tttggaaaca 420  
gacctggac 429

<210> 12394  
<211> 416  
<212> DNA  
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<223> Clone ID: LIB3059-012-Q1-K1-D12

<400> 12394

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tggcaacctg tatccctcac tgatttgatc actgctgctg ctgttaaaaa agtgtacaga 180  
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aaatatatcg ctgagaaggt ttttgatctc cttaaggagg cgtggaacaa actcaactct 300  
gaagagctct tctaaacagc ctacagactg aacatagcgt cgccctcag ggtctgcaca 360  
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<210> 12395

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D2

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cattctggag gtgtgcgagg agttcttcca gctgccggcg gctagcaagg cgtacatgta 360  
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<210> 12396

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D4

<400> 12396

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gcagaggctc agggacctgc agtgctggca ggaggtccag gagagcccgc tcgacgcgctg 180  
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gtgccgctgc gccgccatcc ggagcatggt caggggctac gaggaagcca tgccgccgct 360  
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gaggaca

427

<210> 12397  
<211> 398  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-012-Q1-K1-D7  
  
<400> 12397

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gaccagttta atggctatgt gcttgatgga agaagtttga ggggtgaactc tgggccgnca 120  
ccacccagag atcggtcatc accgtcaccg caaagacca ggggtgatgc caacagggtc 180  
tacgtgggta acctttcctg gggagttgac aattcagctc tcgcaaacct gttcagtgag 240  
caaggtgagg tactggaagc aaggatcatc tatgacaggg agagtggaag gtcaaggggg 300  
tttggttttg tcacgtacgg ttccgccgta gaggttgaga atgcaatatc taatctcgat 360  
ggcgctgact tggacggctg acagatccgt gttacggt 398

<210> 12398  
<211> 168  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-012-Q1-K1-E1  
  
<400> 12398

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agacttaaga ccgagccgtg cgggggctcg ggacgggaac tggacaggac cccaaaatct 120  
cagatccttc ctgcccgcgc gcccggtgcc gtcgactcgt cgttcttg 168

<210> 12399  
<211> 407  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-012-Q1-K1-E10  
  
<400> 12399

cggacgcgtg ggctttggcg gatcgaatga aggaaggaag gaggagatgg ggggctgcat 60

ggatgtgcac aaaaaccggt ggatcgaaga gtggaacgcc ggccgcgaga acctcgagtt 120  
 caatttcgcg tggacccgcc gcagcctcgc cgtcgtcggc ctcttcggcc tcgctgtccc 180  
 catcctcgtc tacaagggca tcgtccgcga attccatatg caggacgagg atgcaggccg 240  
 gccatacagg aagttcctgt aagcggcgtc cagggccgca ggagacgtcg atccctcgac 300  
 cggggctgcg aggaggggag tttccattca gtttgtgtcg gtattgtttt agtctgaatc 360  
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<210> 12400

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A5

<400> 12400

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 atggacgttc tggaccatgg taccggtatt aatgaatgcc gtgggtggaa ttcttggttg 120  
 tcttgtcaca acttacgcag gtggtattag aaagggtttt gttatagtct cagctctcct 180  
 tgtaactgca ctgctacaat tcgggtatga tgggaagcca ccatcactct actgcctgat 240  
 ggcattacca cttgttgcca caagcatatt catctaccat aagtatccat atgtggataa 300  
 gaagaagaaa gtctgatgca cataattgtc agagatggga agtatcatca gcatgatgta 360  
 atgctaacct tattttgtcc ac 382

<210> 12401

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-A7

<400> 12401

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 tatacgggct ctacaagcaa gccacggttg gagatgtgaa tcccaatcgt ccggccatat 180

tctacaaaaa ggacagggcc aagtgggatg cctggaaggc tgttgaaggc aaatcgaagg 240  
 atgagggcgat gaatgactac atcaccaagg tgaagcagct ccaggaggaa gctgccgcct 300  
 cttaaaagtc tcttaatagt gttgccaaac agctatttgt cagatgagct ttgtgccatt 360  
 tcctcattag aagtatatca ttcgatccat tggggatctg tgaaccatgt nacctgttat 420  
 gtaact 426

<210> 12402  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B10

<400> 12402

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 acgacttcgt cttcaaatct ggcaaaaatg tccttattga attctatgcc ccctggtgcg 180  
 gacactgcaa gaagctggcg cccatcttgg acgaggcagc caccactctc cagagcgacg 240  
 aggaagtcgt gattgctaag atggacgcga ctgccaatga cgttcccagt gagtttgacg 300  
 tccaaggcta cccgaccttg tacttcgtga ccccgagcgg gaaggtgaca tcctacgaca 360  
 gcggcaggac ggcgacgac atcgctcgact tcatcaagaa gagcaagg 408

<210> 12403  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B11

<400> 12403

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 tccgtcgccg gcgaggctcc gaccaccggg gagcaccgga tggggactac catcgtcggg 180  
 gtctgctacg aaggcggcgt cgctctgggc gccgattcca ggaccagcac tggaatgtat 240  
 gtagccaacc gtgcttcaga caagattact caactgacag acaatgtgta tgtctgtcgc 300

tctggatctg ctgctgatac acaagtcatt tcggattatg tacgctatatt ccttcaccaa 360  
cacacaatcc agcttggaca accagctacc 390

<210> 12404

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-B12

<400> 12404

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gcttgccgca ttatcactga ccgaaggcat tatgtcctaa cttgaaggcc ataacaaact 120  
atcttcagtt tccaactcag tgcgggtggt tccagagggt gtctggcaca tgacagtatt 180  
gttccttcga tactatggtt ggacttgtga atgttgtttc catactggat gttagggttt 240  
atctgcgcc tacggtgacc tgccgttaag gcaaagaact tatttgcaag tctgagcact 300  
atcttggtggg gtgggtggg ggggtgctt gttntataa ctgtctttt tncctagtt 360  
ggaagttttc ttactcaatt gaatgaacca gggaacttat tgcatactat caaatgggtt 420

<210> 12405

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B5

<400> 12405

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gcggcgacta cgcccatat tgtaccacgt gacgagagaa ctctcttcgt gactttctcc 120  
aacggatacc ccttcaccgc ggatgaactg tacgaattct ttatggggaa 170

<210> 12406

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B8

<400> 12406



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tatgtctctt ggtctttctg caagtgtgc taccgcgacc attttcccgc aatgctcaca 120  
agctcctata gcttcccttc ttcccccgta cctctcacca gcggtgtctt cggatatgtga 180  
aaaccaatt cttcaaccct ataggatcca acagggaatc gcagctggca tcttaccttt 240  
atcaccttg ttctccaac aatcatcagc cctattacag cagttacctt tgggtgcattt 300  
attgccacaa aacatcag 318

<210> 12407

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C10

<400> 12407

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180  
gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240  
agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300  
tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360  
caagtagctc tggcaaacct ttctccctac tctcagcaac aacaatttct tccattcaac 420  
caactgtcta cac 433

<210> 12408

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C12

<400> 12408

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gctaaccccc caacctctt acaactacaa caattgttgc ctttgtcca acttgctttg 180

acaaaccag cagcctccta ccaacaacac atcattgggtg gtgccctctt ttagattgct 240  
 tattagatgt aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 300  
 aaagttacat ttccagattc taaaaaaaaa aaaaataaaa aaaaaataaa taaaaaaaaa 360  
 aaaaaaaaaa atataataaa aaataaaaat aaattaatat aaaaattata aaattttttt 420  
 ttttt 425

<210> 12409  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-A4  
 <400> 12409

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 gccactgga aacgggttgt aagtaaatcg tatgtgaatg gcatgggaat tgactgggtcc 120  
 aaagtgagaa atgtcatgga catgagagct gtctatggag gttttgctgc agctctgagg 180  
 gacaaaagg tctgtgtcat gaatatcgtg ccgacgatt caacagacac gctgcccac 240  
 atctacgac gcggattgtt tgacatgtac catgactggg gcaagtcttt cagcacttac 300  
 ccaaaaactt atgaccttct gaactcggac catctgttct ca 342

<210> 12410  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-H10  
 <400> 12410

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 ttggttactg ttgagaatgt gcagaaaagc aagattttct tcattgcctg gtccccatcg 120  
 acatcccgca tacgtgctaa gatgctgtac tccacgtcga aggaccgcat caagtacgag 180  
 cttgacgggt tccactacga aatccaggct accgacccat cggagggtgga catcgagggt 240  
 ctccggaagc gggctcactg aagctggttc tccttttgaa gggacctgtg aagggccgtg 300  
 aaccttcagc cagatgcaaa ttcaattatc aacgatgaag ctcccgccgt ggtgtttgtt 360

aataagttcc tgtaagcata tcatttagtc gctatgcatg acactagc

408

<210> 12411

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H11

<400> 12411

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tatgatgtaa ttccttggtta tctgccaaatt atgtatggac tatggacatg tgttgcgctg 120

ttcaacttac tactacaaat aagtaatcga taatgttccc ttccc 165

<210> 12412

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H12

<400> 12412

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agcaccctga acacggggaa naggaaaacg gtaagggtcgg tgcttctggt gggcagcatg 120

ctgcgaacga acacacttac cagtataact atgccgaggt tggcgagatt gcaccaaacc 180

ccaaaaggag caagacgaat catgggcaca aggtccactc atccaaagcc tacaatgcca 240

aggttttcgag agcaatgcct tctgacattg gcgtcaggaa ccagtggcca ggtaaagcta 300

cgtaccaaga tgatagtga gagacggaag aagatggagg caacaacatt gaagatggct 360

ggagatatgg caacaatgat gacgatgagg aaacaccaga tgaagattga cctttat 417

<210> 12413

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H2

<400> 12413

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 aaaaaaaaaa aaaaaagaaa aatttcgaaa attataaaaa ccaagaaaac caaaacaaac 120  
 aaaaaaaaaac cacccaaaca aaaccaaaca accacctata aaaaaaccaa aacaaaaaaaa 180  
 attaaaaaaaa acccacataa aaaaaaaaact gcccttccca aaaccaaacc cccc 234

<210> 12414  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H3

<400> 12414

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 cgccgtcctg ctctccgtgc tcgcgggtgc cagcgcacgc gccgggacct cctgcgtgcc 180  
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 ggcggacatc ccggcgctact gccggtgcac ggcgctgagc atcctcatgg acggcgcgat 360  
 cccgccgggc ccggacgcgc agctggaggg ccgcctagag gacctgccgg gctgcccgcg 420  
 ggaggtgcag aggggatt 438

<210> 12415  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-H5

<400> 12415

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 gaattcgaag gggctgtcat tgcactgttc catctgttga ttacgagaac cgataaagtc 180  
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agatcaaaga atgctcgtgg ccagcaaggc tcatatccaa ttaagctgtt ctacacttca 360  
aacatgcccc tcattcttca ctctgcgctg attaccaacc tctattttat atcccagctt 420  
ctctacagga agtacagtg 439

<210> 12416  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-011-Q1-K1-H6  
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aaaggtcaca agaatctcat atagttccct tttttcccat atacctcaca taaatgatct 180  
ctacagtttg aaaaccccc tctcttcagc cctataggct ccaacaagca atcgcagcaa 240  
gcaacatacc tttatcacc ttgttggttc aacaatcgcc agccctatct ttggtgcagt 300  
cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc 360  
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 420  
aactgtctac 430

<210> 12417  
<211> 380  
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<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-H7  
<400> 12417

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aagctcgccc gctacaacaa gaagcccacc ataacctccc gggagatcca gacttcggtg 180  
cgcctcgtcc ttcttgccga gctcgccaag cacgcctctt ccgagggcac caaggccgtt 240  
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cgtactttta ggccagtgtc aataggttgc tcgaggaaca atgtagtggtg gaaatttcta 360  
 atatattcca aattgtgctg 380

<210> 12418  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-H8  
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 cggcaagatt ggaacggaca ttgaagatta caagtgtcga tggctagttg tgcaagccct 240  
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 agcctgtgtg gcaaaagtga agaacctcta caaagaactt gacctagagg cgggtatttca 360  
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<210> 12419  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-011-Q1-K1-H9  
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<210> 12420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A1  
  
 <400> 12420  
  
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 tgccatgatg cattaccact tgttgcgaca agcatattca tctaccataa gtatccatat 300  
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<210> 12421  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A10  
  
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 acaatccttg ccacatctaa caatacaagc catcacaacg caacagcaac aacagttcct 360  
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<210> 12422  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A11

<400> 12422

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cacagtgtc acttgctcct agtgccagta ttccacagtt cctcccacca gttacttcaa 180

tgggcttcga acatccagcc gtgcaagcct acaggctaca actagcgctt gggggagcgc 240

ccttacaaca accaattgcc caattgcaac aacaatcctt ggcacatcta accctacaaa 300

ccattgcaac gcaacaacaa caacaacagt ttctgccatc actgagccac cttagccgtgg 360

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acgt 424

<210> 12423

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A3

<400> 12423

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atgttaagga ttgagaccat acctgcttta caggcatctt cagatccatt ggtctgctat 240

ttgctttgtc attccttggg ccaactttcg tgttacctca ccttgatgta caaaacggtt 300

tcgttcacat atgtgaatgc acgcctgtta ctgatttaag cgtcctgttg taaataaaac 360

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aaa 423

<210> 12424

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-H1

<400> 12424



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gcggaacgg caccggcggc gagtccatct acggcgagaa gttccccgac gagaagtctg 240  
tgcgcaagca caccncccc ggtgtgctct ccatggccaa cgccggggcc aacaccaacg 300  
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acggc 425

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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gcggttggtg cagcaccagc cgacgcagca cccgacgtg gaggagctca gcatcggcaa 360  
gatcaagttc aaggcgttc acctcggcgg ccaccagatc gcgcgccgc tgtggaagga 420  
ttactacgca naggttgatg ctgt 444

<210> 12426  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F4  
<400> 12426

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aatgctcact tgctccgagt gccattatc cacagttcct cctccagtt acttcaatgg 180  
gcttcgaaca cccagctgtg caagcctata ggctacaaca agcgcttgcg gcgagcgtct 240  
tagaacaacc aattgccc aa ttacaacaac aatccttggc acatctaacc atacaaacca 300  
tcgcaacgca gcagcaacaa gcactgagcc acctagccgt ggtgaaccct atcgccctact 360  
tgcaacaaca gctgcttgca tccaaccac ttgctttggc aaacgtagct gcataccaac 420  
aacaacaaca gttgcaacag tttct 445

<210> 12427  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F8  
<400> 12427

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atgatgggcg ccggcgggct gtaccctac gcggagtacc tgaggcagcc gcagtgcagc 180  
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cagctgcaga tgatgatgca gcttgagcgt gccgctgccg ccagcagcag cctgtacgag 360  
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atgatgatgg ccagaaacat gccg 444

<210> 12428  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F9  
<400> 12428

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 ctctcaacca tcggagccgt gtgggcgacg gcggtgggcg cgtcgggtggc gtacagccgg 180  
 cggcgggcg cggcgcgggc gacgggcatg cgcctcatcc acgccaggat gcacgcgcag 240  
 gcgctcacgc tcgccgtcct cgggggagcc gcgctcgcg accactacca cggcaagagc 300  
 accaagcccg ggaagaggca gcagcaggag gacctggact acggcttcta ctgcagctg 360  
 ccgccggcca ccgacgccga cggcaacgag aacgagcgct ggagctggta gagcatgc 418

<210> 12429

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G10

<400> 12429

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 aatttcactc aaccattaac accttatccc tcaaactaca atttctacca ttatcatcca 180  
 ccctatttaa taaacaatat aatctttata ctacaacaac tatttcataa tatcaaacca 240  
 tacttctatt tactaatat 259

<210> 12430

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G11

<400> 12430

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180  
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240  
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<210> 12431  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G2

<400> 12431

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agggcggcgc ggctccgag gccaaaggagc cgcaaggggc tcggcgtgcg gcacctgctg  180
aagccctgcc gattccttgc agctgtccag agggcgaaatg ccagggtgag ggaagcgggg  240
gaggcgaccc tcgtggcagc gcttgcggcg gcccaaaaag agagcgagag ggagaacgag  300
gtggtggccg atgtatgcgg cgggtggaag agtgaggatg gaagtttaaa ttgtggatac  360
tcaagcatta gaggcagaag ggtaaacaatg gaagacttct atgacataaa atcttctaga  420
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<210> 12432  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G3

<400> 12432

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gctgtccccg ccgacgaaga agagatctgc ggtgccactt tcaagggtgtt ggaaggggtct  180
actgtcctga cggcgtgca ctgatctatc atcatcaggc ggaggcgatg cgatgatgat  240
gcagaacttt gtacatgcgt tggatggatg tggatgaaca tagtggctgc caacaagtca  300
tgctcatgca aaccgatgaa tctatctctg tatcatcgat ctcggttgct tgctagtcca  360
gactccagac atggctatat atatatagct ggtgctaata aataggagta taatcgatcat  420
atcgatcggg tgcgtgtgga atg                                     443
  
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<210> 12433

<211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-G4  
  
 <400> 12433  
  
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 cgcaataaat tcctttatcc gtggaatcgg gataacaaga agtgacaaca gcttaattcg 180  
 tgttgatcgt ctagaatacc acatcagggg agagcttaac aaaacagccc ctccaaccat 240  
 gggtgttttg cgtcctctaa aggtggtaat aactaacttg gaagaaggaa aagtactaga 300  
 ccttgatggg aaaatgtggc cagatgcttc tgatactgat gcttcctctc actataagct 360  
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 ctactatggg ctggcccctg gtaa 444

<210> 12434  
 <211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-G5  
  
 <400> 12434  
  
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 aaaaattaaa aaaaataaat acattcataa aataacaaaa aatacaaaaa aatacattca 120  
 tatataatat ctacttaa ataaatctca ttaaacttaa atctttttca accttacttt 180

<210> 12435  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-G9  
  
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ggcttgtttt tcaagtttgc actgccaaaa tgaacctcat cgctcaggtt ctttttggca 180  
 gtgcaaactt gaacctgagc gatgaggttg atttgggaaga ttatgtttcc agaccggata 240  
 agatcagtgc tgctgatatt gctgctatct gccaaagaggc tggcatgcat gctgtccgca 300  
 aaaaccgata tgtcatcctc cccaaggact ttgaaaaggg ctaccgaacc aacgtgaaga 360  
 agcccgagac agactttgat ttctacaaat gagtcaacc 399

<210> 12436

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F12

<400> 12436

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 cttcgccacc gccttaagca aggagtccat cgtcgacgtt gagggcgctcg tgtccctccc 180  
 caaggagccc ctcaaggcca ccacgcagca agttgagatt caagtcagga agatctattg 240  
 catcaatagg gctatcccaa cccttccaat taaccttgaa gatgcagctc ggagtgaggc 300  
 agattttgag aaggctgaac tggctggaga aaagcttggtt cgtgttggtc aagatacccg 360  
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<210> 12437

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E10

<400> 12437

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 atctctccca aattccatat acattacaca ataataccaa taccatcaat aatatcactt 180  
 taaaccaact ccatcacaac tccaaacact aatccctct 219

<210> 12438

<211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-E11  
  
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 ggctccacga tgaagcgggtg gtccttggga tgaacgcgac aatagatttc ctgtgcctgt 180  
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 cctacggctg cgtctcatgg tacctcactc ttgatcatca cccaacggag gaagggaaga 300  
 tgtcagcggg tagtccggag ctagaggagc gcaggttttt ggggtacctt tccccggaat 360  
 tgctttactc taccctgatg gacctggtaa aactgtgcag cacagggtgc caacgc 416

<210> 12439  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-011-Q1-K1-E12  
  
 <400> 12439  
  
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 gagcccgtg ccgcgaaggc cccggcgggg aagaagcca aggccgagaa gcgcctcccg 180  
 gcggccaagt cgtccggcaa agaaggcggc gacaagaagg gtaagaagaa ggcaagaag 240  
 tcggtggaga cctacaagat ctacatcttc aagggtgctga agcagggtcca cccggacatc 300  
 ggcatctctt ccaaggccat gtccatcatg aactccttca tcaacgacat cttcgagaag 360  
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 gag 423

<210> 12440  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E2

<400> 12440

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caactgcagga tgcttctggt ggaaagaaaa tatctatcaa tgatcttggt atcaaggctg 180  
cagctttggc tcttagaaaag gtccctcagt gtaacagctc atggatgaat gattttattc 240  
gccaatatca caatgtgaac atcaacgtgg ctgtgcagac tgaacacgga ttgtttgttc 300  
cagtaattag ggatgcagac aagaaggagc ttggtacaat tgctgaggaa gtgaagcagt 360  
tggtcaaaa agcaagagac aatagcttaa aaccagcaga ttatgagggt ggcaccttca 420  
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<210> 12441

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E3

<400> 12441

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tcgttaccac gattgatagg cgatccggca aggagctgga gaaggagccc aaatttctca 180  
agaacggtga tgctggtatg gtgaagatgg ttcccactaa gcccatggtg gtggagacct 240  
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tcggagtcac caagagtgtg gagaagaacg acccaactgg agccaagggt acgaaggctg 360  
ctgccaagaa gaaatgatct atctgtctgg tgctgtgctt gcttgttggt tacctcgtgg 420  
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<210> 12442

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E4



<400> 12442

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ccgatctagc tcgctgcgtc agcctgtcac ctggcgtgcg ccgcgctggg gccactgcca 180

cggcaacagc acggcatggc gccggcatag gtcgctagga aaaacctgct tttgtgttcg 240

ggttcacgtc gtgtcctacg tggcgcgggc ggccccgcct agtaaaggag cgtaggagcg 300

tcgttttctg ttgtggtcga ataaataatg tgtctgtgtg c 341

<210> 12443

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-E6

<400> 12443

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tccccggggct gatcaagatc gccatgcacg gcggcccgcc gtgcgacccg gacggcaggg 240

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tgccggggcca cgtcgacacc gccggcgggc ccgtcgctcg ccagtgtctg atgtactcgg 360

tgacccccga cgacgactac gtcgtcgact tcctcggcgg ngagtctggg aaggacgtcg 420

tcatcg 426

<210> 12444

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E7

<400> 12444

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ctggtcaaca ttgctcgggg acgcctgctg gactacaagg ctgtgtttga tcacctggaa 120

tcgggccatc tagctggtct ggggattgat gttgcttgga tggagccatt tgatcctgag 180  
gaccctgttc tgaaattccc aaacgtcatt ctaacgcccc atgtggccgg cgtaaccgag 240  
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gcatgccatt cgtgggctat cggaaccgct gatgcatca tttgtagaga ataatggatc 420  
cgcgacttgt aagaataaac 440

<210> 12445

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E8

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ctgcctctta agttgc 436

<210> 12446

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-E9

<400> 12446

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tccacaaggt tactcagtac aagaagggtg aggatagcct gtctgcccag ggaaagcgcc 180

gttatgaccg caagcagtca ggatatggtg gccagaccaa gcctgtcttc cacaagaagg 240  
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agcacgcaat taagaggtgc aagcattttg agattggtgg agacaagaag ggcaagggaa 360  
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tactgttcta aaa 433

<210> 12447  
<211> 448  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F1  
<400> 12447

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cctcgtcgcc tccttctctc cagtagccga gtcgtcctgc gtgcgagata actcattggt 180  
gagagacata agccaaatgc cgcaaagcag ctatgggatt gaaggattgt cacatataac 240  
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tccaggtcaa aggacgcaa tccacaggca ttcctgtgaa gaagttttca ctgtcctcaa 360  
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aattcctttc tttcagaata ccacattt 448

<210> 12448  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-011-Q1-K1-F11  
<400> 12448

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ggcgggggtc atgaaggcca ccaaggccgt ggccatgttc caggcgctcg ccgtcaagag 180  
aggcgccgtc ctcaaggaca ggactgaggt ggtggacatc acctcctcca agcgaggtga 240

aggagagggg tcaatcatct cggtgaggac gtccagcggc gaggagttcc acggcacgaa 300  
atgcatagtg acagtgggcg catggacgag caagctgata aagtcgggtga ccggcctgga 360  
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<210> 12449  
<211> 375  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-017-Q1-K1-B4  
<400> 12449

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aacacctgag gcccttgcc tggagaggaaa ggctgcagta gcacaggcca aactagcaaa 180  
tcggctctac cagaagaaat tctctggccc aaggtgggag gcgttggcca agaaagggtg 240  
caagaaacaa aggttgttgt gggcatccac cgggtgtcaag aaccagctt atcctgacac 300  
tctggatgtg gacagtctca tctgacctga caggttcaac acgatgcccg accaagcttt 360  
gcaagcattt catag 375

<210> 12450  
<211> 279  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-055-Q1-K1-E5  
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tgttttattt attttttttt tttttttttt tttttttttt 279

<210> 12451  
<211> 440

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A6

<400> 12451

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atatcgggtcc attgtcttca aagagccacg ctttgtcgag tatttccgcc ttgcaacccc  180
tgaaacagag tatggttagga tgaacatagg aagcaggcca tccaagagaa agccgagcgg  240
aggtatcgac tcaactccgag caatcccatg gatctttgct tggacacaaa cgcggttcca  300
cctcccggtc tggctaggat ttggagccgc attcaagaat gtcctccaga aggacatcag  360
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<210> 12452  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12452

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ccatgtcgcg ctgcgcccc acctctccaa ggagatcatg gactcgacca aggctgcggc  180
ggagctggtg aagctgaacc ctggcagcga atacgcaccg gggctggagg acaccctcat  240
cctgaccatg aagggcatag cagccggcct ccagaacacc ggtaaacca cgaagagggg  300
atcttttttc tcctctgat cattggctct aggtccttcg tattttcgcg gattgtaact  360
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<210> 12453  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G6

<400> 12453

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caaaaagcca gaaatagagg gtatcgggtat aatgttctaa tagtatactc catcacaaaa 120

aatgtgcact tctatttaca ttgctttaag tcaaacaatc ttcggtttta ccaacttttt 180

tactacaaat atataaaagt tatatgatac caaataagta ccattagggt catcatagaa 240

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gtcaaaactta aaatagttat acttgcacca gatctag 337

<210> 12454

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-C12

<400> 12454

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cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc tcgatggcct 180

ctgccaccgt gctcaagtcc tccttcttcc ccaagaagtc cgaatggggc gccaccaggc 240

aggccgcccgc gccaggccgc cccaccgtct ccatggtcgt ccgcgccttc gnctacgccg 300

atgagctcgt gaagaccgcg aaaacgatcg cgtcgccggg gcggngcac ctaggcgatgg 360

acgagtcgaa cgcgacgtgc gggaagcggc tggcgtccat cgggctggag aacac 415

<210> 12455

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F4

<400> 12455

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taatcccacc ggtgtagatc ctacggagga acaatggaga gaaatatccc atcagttcaa 120  
 ggtgaaaaaa cattttccat tctttgacat ggcataccaa gggtttgcca gtggtgatcc 180  
 agagagagat gccaaaggcaa tccgaatfff ccttgaagat ggacaccaa ttggatgtgc 240  
 tcagtcatac gcaaagaaca tgggacttta tggacaaaga gcaggatgcc tgagtatttt 300  
 gtgtgaggat gagatgcaag cagttgctgt caagagccaa ctgcaacaga tcgcaagacc 360  
 aatgtacagc aaccacctg ttcattggtgc actggttgtt tctataatcc tcagtgatec 420  
 agaattg 427

<210> 12456  
 <211> 139  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-F6  
 <400> 12456

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 atgacgcata ttttgtcagg tctatgtgtt atcgtaaac ttttaacggt cattctatft 120  
 caaaagtfff gcattttgc 139

<210> 12457  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-002-Q1-K2-D11  
 <400> 12457

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 atcggaaggc ttgtggccat tgtggccctg cacagctacg acgtcgagct cgtagccgtg 180  
 aacgaccctt tcatcagcac ctattacatg acctacatgt tcaagtatga cactgtgcac 240  
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 aaagaggctg ctgtgtttga ctgcacgaac c 331

<210> 12458  
<211> 218  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G1

<400> 12458

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gatgtcgagc tcgtcgccgt caacgacccc ttcattacca cggattacat gacctacatg 120  
ttcaagtact acaccttgca cggccaatgt atgcacagct acatcacctt caaggactcc 180  
aagtctcttc tcttctgcga gaatctcttc actgtctt 218

<210> 12459  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G11

<400> 12459

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cagcaccgat tacatgacct acatgttcaa gtatgacact gtgcacggac agtgggaagca 180  
ccatgagggtc aagggtgaagg actccaagac ccttctcttt ggtgagaagg aggttgctgt 240  
gtttggctgc aggaaccctg aggagatccc atgggggttc gttggcgctg aatatgttgt 300  
tgagtctact ggtgttttca ctgaccagga gaaggctgca gctcacttga aggggtggtgc 360  
caagaagggt gtcatttctg ctcttagcaa ggatgcccc atgttcgttg ttggtgtc 418

<210> 12460  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D10

<400> 12460

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tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180  
acgacccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240  
gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttggtgaga 300  
aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat cccatgggggt tcggttggcg 360  
cttgaatatg ttgttgagtc tactggtgtt ttcactgacc aggagaaggc tgcagctcac 420  
ttgaggttgg tgcca 435

<210> 12461

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E12

<400> 12461

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tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180  
acgacccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240  
gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttggtgaga 300  
aagaagttgc tgtgtttggc tgcaggaacc ctgaggagat cccatgggggt tcggttggcg 360  
ctgaatatgc ttgtgagtct actggtgttt tc 392

<210> 12462

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-048-Q1-K1-D4

<400> 12462

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tctggcaggc tctcaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120  
tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180

acgacccctt catcagcacc gattacatga cctacatgtt caagtatgac actgtgcacg 240  
gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttgggtgaga 300  
aagangttgc tgtgttttggc tgcaggaacc cctgaggaga tcccatggggg ttcggttggc 360  
gctgaatatg ttgggtgagtc tactgggtgtt ttcac 395

<210> 12463

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-E5

<400> 12463

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aacgacccct tcattaccac ggattacatg acctacatgt tcaagtacga caccgtgcac 120  
ggccaatgga agcacagcga catcaccctc aaggactcca agacgcttct cttcggcgag 180  
aagccgggtca ccgtcttttg catcaggaac cccgaggaga tcccgtgggg tgaggctggt 240  
gctgagtatg tcgtggagtc caccgggtgtc ttcactgaca aggacaaggc tgctgcacat 300  
ctgaaggggtg gtgccaagaa ggttggttctc tctgccccaa gcaaagatgc acccatgttt 360  
gttggttggtg tcaatgagga caagtacacc ttcgatgtta acattgtttc caatgctagc 420  
tgcaccac 428

<210> 12464

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A12

<400> 12464

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ccccctcgag gtcttgacc agaggggagt gggcgagctg gtgaagcttg ctacagagag 180  
gggccgcaa gctaggccta acttgaaggt gggcatttgt ggagaacacg gtggagagcc 240  
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ggttccgatt gctaggctag ctgcagctca ggtgcttgct tgaggctgcc tcttcattgg 360  
 caaccggatt gcctgctgct ggtggatgtg gtgatcaaca gtattattac agagccatgc 420  
 tatgtgaaca ttac 434

<210> 12465

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-F6

<400> 12465

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 gcggagcagg ctgaattctt ctcttcgga acgaacgacc tgacgcagat gacctttggg 180  
 tacagcaggg atgatgtggg aaagttcatt cccgtctatc ttgctcaggg catcctccaa 240  
 catgaccctc tcgaggtcct ggaccagagg ggagtgggag agctggtgaa gtttgctaca 300  
 gagagggggc gcaaagctag gcctaacttg aagggtgggca tttgtggaga acacgggtga 360  
 gagccttcgt ctgtggcctt cttcgccaag gctgggctgg attacgtttc ttgctccctc 420  
 tt 422

<210> 12466

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-F2

<400> 12466

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 atgggtaaaa ctattgggta ccagatcggg accattattg agatttcc 108

<210> 12467

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-G11

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gctaggttct cgaccagaga tgaatgggcc agctgggttaa gcttgctaca gacaggggct 120

agcaaagcta ggcctaactt gaacgtggac attggtggag aacatggtgg agagcctcaa 180

tcggtagctt tattcgccaa gactgggctg gattacgttg ctgctccct tatcagggtc 240

ccgategcta tgctagctgc atatcatgtg ccagtctgag ggtgcctctg ttaggtcgca 300

gccggatcac ctgctggtgc tacatgtgat gaatcatgat actactatga cagagccatg 360

ctactgtgag agcatcagta gc 382

<210> 12468

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F4

<400> 12468

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gttcctacca gaagggaaacg tgcaggaaat cgtgcgtgaa ctgtgttctg agacgggagc 120

caaccaggag gatgccctcg cacggatcga aaagctttcg gaagtaaacc cgatgcttgg 180

cttcogtggc tgcaggcttg gtatatcgta ccctgagcta acataaatgc aagcccgtgc 240

catctttgaa gctgctatag cgatgaccaa ccatggcttt caagtctttt caggggggaa 300

tggt 304

<210> 12469

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D10

<400> 12469

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attgagattc ccagggcagc tctagtggct gacgagatcg cggagcaggc tgaattcttc 120

tccttttgaa cgaacgacct cacgcagatg acctttggct acagcagga tgatgtgggg 180

aagttcatcc ccatttatct ggctcagggc atcctccagc atgacccctt cgaggttctc 240  
gaccagagag gagtgggcca gctgggtaag cttgctacag agagggggccg caaagctagg 300  
cctaacttga aggtgggcat ttgtggagaa catgggtggag agccttcacg gggttgccttc 360  
ttcgccaaga ctgggctgga ttacgtttct tgctccctt tcaagggtccc gatcgct 417

<210> 12470

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A4

<400> 12470

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gatgtctgat cttagaaac aactcgaaga tgctcggta aaaggcattg atgttagggc 120  
cttggtggtt atcaatccag gaaatccgac tgggcagggt cttgctgaag acaaccaata 180  
tgatatagtg aaattctgta aaaatgaggg ccttgttctt ctagctgatg aggtatatca 240  
agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg caagatccat 300  
gggatacggc gaggatgaat ctctttaat atcatttcaa tctg 344

<210> 12471

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G1

<400> 12471

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attctgcaaa aatgagggcc ttgttcttct agctgatgag gtatatcaag agaacatcta 120  
tgtggacaac aagaaattta actctttcaa gaagattgta agatccatgg ggtatggcca 180  
ggatgatctc cctctagtat cgttacagtc tggttccaaa ggatactatg gagagtgtgg 240  
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caagatagct tcagtgaacc tatgctcaa tatcactggc caaatccttg cgagcctcgt 360  
catgaatcca ccaaagggtg gagacgaatc atatgcttcc tacaaggcag aga 413

<210> 12472  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H7

<400> 12472

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ggttggagac gaatcatatg ctctctacaa ggcagagaaa gatggaatcc ttgagtcttt 180
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caaggccgaa ggagcaatgt atcttttccc tcagattctt ctgccacaga aggcaatcga 300
ggctgctaaa gctgctaaga aagcgctga cgctttctac gctctccgtc tccttgaatc 360
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<210> 12473  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12473

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cagatgacat tttcattaca gacggagcaa gtcctggggg ccacatgatg atgcaattac 180
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cctccatagc tcttcatggt ggagctcttg tcccctatta ccttgatgaa aaaactggng 300
tggggtttgg agatctctga tcttaagaaa caactcgaag atgctcggtc aaaaggcatt 360
gatgttaggg ccttgggtgt tatcaatcca ggaaatccga ctgggcaggt tcttgc 416
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<210> 12474  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-H5

<400> 12474

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aatttaactc tttcaagaag attgtaagat ccatggggta tggcgaggat gatctccctc 180  
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acatggagat tactggcttc agtgctccag taagagagca gatctacaag atagcttcag 300  
tgaacttggt ctccaatatc actgggtcaaa tccttgcgag ccttgtcatg aatccaccaa 360  
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tt 422

<210> 12475

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E5

<400> 12475

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tcttttgttc acccaacaat cctactggtg ctgctgcac tcgggaccaa ctaaccaa 180  
tagtaaaatt tgcaaaggac aacagggtcca tcatagtcta tgattctgct tatgcaatgt 240  
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ttgagacagc ctcatctctg aaatacgtg ggttcacagg tgtccgtcta ggttgactg 360  
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<210> 12476

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-G3

<400> 12476

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gtttgcaccg tattatttca atgctacat gtcattccag atgacagggtg ttactgacat 180

attagttggt ggctgcatc ccaagacact tcactctgat gttgattggt tggagaagggt 240

tctgaaagaa aatgagccta tccctaaact tgtcactgtt gtgaatccgg ggaacccctg 300

tggagctttt atttcaaggc ctatgcttga gagaatttca gatctgtgca aaaatgctgg 360

tgcattggctt gtggttgaca atacctatga gtactttatg tatgatggaa tggagcacta 420

ct 422

<210> 12477

<211> 441

<212> DNA

<213> Zea mays

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<400> 12477

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attggaatta atgttccccg ctcaagattt ctcccgggtga aggctacatc tgattttattg 180

cttgtgcagt ctgatcttta caccttgggt gatggctttg tcattccgcaa tccatccaga 240

gcgaatccag ctaacccttc gattgagctt ggacctgagt tcaagaagggt tgccaatttc 300

cttgctcggg tcaagtccat cccagcattc gtcgagcttg acagcttgaa gggtttctggg 360

gatgtctggg ttggttctgg aattacgctc aagggaagg tgacaatcac cgccaagtct 420

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<210> 12478

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G11

<400> 12478



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gaaggatggc tggatcctc ctggatcatgg tgatgtgttt cctcttttga ataacagcgg 180  
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cttgggtgct atagtcgaca tcaagatcct aaaccatctg atcaataacc agaacgagta 300  
ctgcatggag gttactccaa agacgctggc tgacgttaag ggtggcactc tcatctctta 360  
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<210> 12479

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G1

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cggcttcttc aaggaccaga cgacctcat ccggctgaac cactaccctc cttgcccgag 180  
ccccgacctg gccctcggcg tggggcgagg caaggacgcc ggcgccctga ccatcctgta 240  
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cgacaggtac gagagcg 377

<210> 12480

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H8

<400> 12480

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actcaagtgc ttgtctgacg gtgcctctgc tcgttggcag ccgatcgcc tgctgttgg 180

gcacatctggtg attaataata ctactatgac agagccatgc tctgtgaaga gtattagtag 240  
cagcgctcat aaaagctaca gttccgtctc ttttctcagc tatgtaaaac ttccaaactg 300  
ttcatgctta aaactgaggg ttttcttggg gtgaggtgtg catgtcgttg ttgagggccat 360  
tgctgcacat tccacctatt gagggccctcc tcaaaataag ccttcaaaaa gctgatatct 420  
ttt 423

<210> 12481  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F1

<400> 12481

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gcctaacttg aaggtgggca tttgtggaga acatgggtgga gagccttcat cggttgcttt 120  
cttcgccaaag actgggctgg attacgtttc ttgctcccct ttcagggctcc cgatcgctag 180  
gctagctgca gctcaggtgc ttgtctgagg gtgcctctgc tcgttggcag ccggatcgcc 240  
tgctgttggg gcacatctggtg attaataata ctactatgac agagccatgc tctgtgaaga 300  
gtattagtag cagcgctcat aaaagctaca ggtccgtctc ttttctcagc tatgtaaaac 360  
ttccaaactg ttcatgctta aaactgaggg ttttctt 397

<210> 12482  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-C8

<400> 12482

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ttcatacttt caatcagagc cagtatcctc gcattgttac cgaggacttc ttgccacttc 180  
caagcaaagg gaaatctggg aaggatggct ggtatcctcc aggccatggt gatgtgttcc 240  
cctctttgaa taacagtgga aaactcgaca tcttattggc tcaaggcaag gagtatggtc 300

ttcgtgctaa ctcagacaac ttgggtgcta tagtcgacat caagatcctg aaccatctga 360  
tcaataacca gaatgaatac tgcattggagg ttactccaaa aacattggct gatgttaaag 420  
gcggt 425

<210> 12483  
<211> 345  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-058-Q1-K1-A4  
<400> 12483

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ctaggctagc tgcagctcag gtgcttgtct gaggggtgct ctgctcgttg gcagccggat 180  
cgcctgctgt tgggtgcatct ggtgattaat aatactacta tgacagagcc atgctctgtg 240  
aagagtatta gtagcagcgc tcataaaagc tacagttccg tctcttttct cagctatgta 300  
aaacttccaa actgttcattg cctaaaactg anggttttct ggtgt 345

<210> 12484  
<211> 339  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-018-Q1-K1-H2  
<400> 12484

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tgaattcttc tcctttggaa cgaacgacct cacgcagatg acctttggct acagcagga 120  
tgatgtgggg aagttcatcc ccatttatct ggctcagggc atcctccagc atgaccctt 180  
cgaggttctc gaccagagag gagtgggcga gctggttaag cttgctacag agaggggccg 240  
canagctagg cctaacttga aggtgggcat ttgtggagaa catggtggag agccttcac 300  
ggttgctttc ttcgccaaga ctgggcttga ttacgtttc 339

<210> 12485  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-028-Q1-K1-G7

<400> 12485

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tgctacagag aggggccgca aagctaggcc taacttgaag gtgggcattt gtggagaaca 180  
tgggtggagag ctttcatcgg ttgctttctt cgccaagact gggctggatt acgtttcttg 240  
ctcccccttc aggggtcccga tcgctaggct agctgcagct caggtgcttg tctgaggggtg 300  
cctctgctcg ttggcagccg gatcgctgc tgttggtgca tctggtgatt aataatacta 360  
ctatgacaga gccatgctct gtgaagagta ttagtagcag cgctcataaa agctacagnt 420  
ccgtctcttt tc 432

<210> 12486  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C3

<400> 12486

aacgacctca cgcagatgac ctttggctac agcagggatg atgtggggaa gttcatccgg 60  
atgtatctgg ctcagggcat cctccagcat gaccccttcg aggttctcga ccagagagga 120  
gtgggcgagc tggttaagct tgctacagag aggggccgca aagctaggcc taacttgaag 180  
gtgggcattt gtggagaaca tgggtggagag ctttcatcgg ttgctttctt cgccaagact 240  
gggctggatt acgtttcttg ctcccccttc aggggtcccga tcgctaggct agctgcagct 300  
caggtgcttg tctgaggggtg cctctgctcg ttggcagccg gatcgctgc tgttggtgca 360  
tctggtgatt aataatacta ctatgacaga gccatgctct gtgaagagta ttagta 416

<210> 12487  
<211> 390  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E2

<400> 12487

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catcaggtgg cccttatccg tcaagtcgct aacaaagttt tcaccagtat gggtaaaact 120

attgggtaca agatcgggac gatgattgag attcccaggg cagctctagt ggctgacgag 180

atcgcgagac aggctgaatt cttctccttt ggaacgaacg acctcacgca gatgaccttt 240

ggctacagca gggatgatgt ggggaagttc atcctcattt atctgggtca gggcatcctc 300

cagcatgacc ctttcgaggt tctcgaccag agaggagtgg gcgagctggt taagctcgct 360

acagagaggg gccgcacagc taggcctaac 390

<210> 12488

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-F7

<400> 12488

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cactcttgag ctgaggcagc aggcgctcga ccgtctcttg ccgtatcaga ggtctgactt 120

cgaaggcatt ttccgtgcta tggatggact cccggtgacc atccgactcc tggacccttg 180

cctccacgag ttccttccag aagggaacat cgaggacatt gtaagtgaat gatgtgctga 240

gacaggagcc aaccaggagg atgccctggc gcgaatagaa aagcttccag aagtgaaccc 300

gacgcttggc ttacgtgggt gcaagcttgg tatatcgtag cctgaattga cagatattca 360

agccccgggc atttctgaag ctgctat 387

<210> 12489

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-H7

<400> 12489

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 ttctggaccc tccccttcac gagttccttc cagaagggaa cgtcgaggaa atcgtgcgtg 120  
 aactgcgttc tgagacggga gccaaccagg aggatgcctt cgcacggatc gaaaagcttt 180  
 cggaagtaaa cccgatgctt ggcttccgtg gctgcaggct tggatatatc taccctgagc 240  
 taacagaaat gcaagcccg tccatctttg aagctgctat agcgatgacc aaccagggcg 300  
 ttcaagtctt tccagagata atgggtcctc ttgttggaac accgcaggaa ttgggacatc 360  
 aggtggcctt tatccgtcaa gtcgctaaca agagcttcac cagtatgggg aaaacta 417

<210> 12490

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-G10

<400> 12490

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 gtggcatctc aacatgcaca accttaggta aaagcttgag atggagaaac taaaagtttc 120  
 caacagcgaa cacaaagagt ggctggggct ggcctaggag gggaggaaga agagtgccat 180  
 cacacgaaaa ccatgacctc acagcattgg tgcagtaaca tttcactatt tagagcctat 240  
 gatcaggctt taaagagtgg ctggggctgg cctaggaggg gaggaagaag agtgccatca 300  
 ctaacaaaac agcccctcga accatggttg ttttgcgacc tctaaagggtg gtaataacta 360  
 acttgaaga aggaaaagta ctagaccttg atggcaaaat gtggcctgat gcttctgata 420  
 ctgatgc 427

<210> 12491

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B10

<400> 12491

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 gactgctgct tctgctgagc agccgaagag ggcccctaag ctcaatgaaa ggatcctctc 120

ttctctgtcc aggaggtccg tagctgctca tccatggcat gatcttgaga tcggtcctga 180  
 tgctcctgct gttttcaatg ttgttggtga gatcaciaag ggaagcaaag ttaaatatga 240  
 gcttgacaag aaaactggac tgattaaggt tgatcgagtc ctgtactcat cagttgtata 300  
 cctcacaat tatgggttcg ttccaaggac tctttgtgaa gacaatgacc caatggatgt 360  
 gttagtcttg atgcaggagc ctgttggtcc tggttcgttc ctgcgagcaa gagcaatcgg 420  
 ccttatgcc 429

<210> 12492  
 <211> 154  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-020-Q1-K1-H3

<400> 12492  
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 ctggctatgt atcggaacaaa acaattctat atgctgagtt ggagtcggca aaaattcata 120  
 tatgctgagt tggagacagc aacttgtttg gata 154

<210> 12493  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-029-Q1-K1-B3

<400> 12493  
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 gggacctata aactggttat tttttcgca ctacaggaag gtgtggaagt acttcacgaa 120  
 gttgattgct tagcaactgg aagatatgct atcattgatg cactaaggtg gaacggtgga 180  
 attatcgatg ccacatacag cacacgaata ccgaagaaca tgctgatgaa aatggctgaa 240  
 ggaaaatgtc agatcatatt tctgtgaaca ctatgtaatg accaacaatgt tcttgagaga 300  
 actatacaat cgaaagttca acaaagacct gactatgcat agcatacaga atatgaagct 360  
 ggcgtacaag atttcaaata ccgattggcc tattatgaaa 400

<210> 12494

<211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-A7  
  
 <400> 12494  
  
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 gtcattgcat gtgttggtga gacccttgag cagagggagg ctgggtctac catggatggt 120  
 gttgctgcac aaacaaaagc aattgctgag aagatcaagg actggagcaa cgtagttggt 180  
 gcctatgaac cagtttgggc tattggaact ggtaaagttg ccaccccagc tcaggctcag 240  
 gaagtgcacg cctccctgag ggattggcta aagaccaatg ccagccctga ggttgctgaa 300  
 tctactagga tcatctacgg aggctctgta actgctgcga actgcaaaga gctagcagca 360  
 cagcctgatg tcgatggttt tcttgctcggg ggagcttctt tg 402

<210> 12495  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-G9  
  
 <400> 12495  
  
 aatgggttat tcttgacac tctgagcgta gacatattat tggtgaaaat gaggagtgt 60  
 ttggaaagaa ggctgcatat gcattgagcc aaaatgttaa ggttattgcc tgcataggag 120  
 agctgctgga agagagggaa gcaggcaaaa cttttgatgt atgttttagg cagatgaagg 180  
 cttttgcaga tagtatttca aactgggcag atgttgtaat tgcatacgag cctgtttggg 240  
 ctattggaac cggaaggtt gctactcctg aacaagccca ggaagttcat gctgctgtac 300  
 gcaattggct gaagaccaac atatgacccg atgttgctc tagcactcga ataacttatg 360  
 gaggatctga gaatgcatgc aactgtgcgg agctagcaaa gaaagaagat attga 415

<210> 12496  
 <211> 146  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-001-Q1-K1-A2



<400> 12496  
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 atgatctagc taaatttacc atgactctag cgcttgtagt tcttgctttc attgctttta 120  
 tatcaagtgt ttcttgtaca cataca 146

<210> 12497  
 <211> 178  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K1-B11

<400> 12497  
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 gagcagaagc caaccnnccg nttttcacag agcctggggg cgctatagcc gccgtggagg 120  
 tgtgcgtgaa ggccgccgcg gggaaccccg acactctcgg cgatagtcgg atctcgca 178

<210> 12498  
 <211> 152  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K1-C2

<400> 12498  
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 cagtggtaaa ttctagaacg cggaagagac taggatgtga tgatgactcg ctcgctgact 120  
 gaagactgat gaatggtgcg tgtgacattg ac 152

<210> 12499  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K1-D5

<400> 12499  
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 aattgcaacc aacatatgcc ccctccttat gtccttgct ctttctgcat gtgttgctaa 120

cgcgacaatt ttccctcaat gctcacaatc tcctatagct taccttcttc ccccatacct 180  
 tccatcaatg atagcttctt tatgtgaaaa cccatctctt cttccctatt agctccaaca 240  
 agcaa 245

<210> 12500  
 <211> 139  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-001-Q1-K1-E12  
 <400> 12500

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 cctatgactg cgcagacca agangttctt aaaacgctga acggcccaca ataggggagc 120  
 catgatgata aaccagccc 139

<210> 12501  
 <211> 190  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K1-E4  
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 ccagagcccc ggaagcgagc taggcaaac ccaaagggcc aggagcccac agcggatagc 120  
 agcaatatca acaaagagac atagaaaaag taaagcgatg aaccccagcc aagagaggcg 180  
 aaagaaggaa 190

<210> 12502  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-001-Q1-K1-G1  
 <400> 12502

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gagctgggggt aaattctgct ggagcttata tcccggagcc tgaagctgag gcccgaccgg 120  
ctgcacagct tcttcaagga ccatacgacc ttcacccggc tgaaccacta cccttcttgc 180  
cctagcccct acctggccct cggcgtgtgg cggcacatag gactcc 226

<210> 12503  
<211> 202  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-G12

<400> 12503

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ttccattccc gtctggattt aatcatacat aaccgcgtcca ttcacatgcg aggatgaaat 120  
caactcccct gtgtctcctg ctactcttta caaggcccta attacagata cctacaactt 180  
catccccaaa gcacttgatt cc 202

<210> 12504  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H1

<400> 12504

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agaccgtgat attttaacta cttatgctcc ttgctctttc tacatgtggt gctaacgcta 120  
caattttccc tcaatgctca caagctccta tagcttcctt ttttccccca taccttccat 180  
caattataac ttcattatgt gaaaacccat ctcttcaacc atataagctt caacaaacaa 240  
tcacaactaa acaacatacc t 261

<210> 12505  
<211> 101  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K1-H11

<400> 12505

cccgctccac agctcactat cggcggccgc tctaagatcc aagctacgtc acctgcatcg 60  
actctaggtg ggtttaaaaa ctaaaccaac cactgccggc g 101

<210> 12506  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A10

<400> 12506

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aaacacggag ctcaagttgc agatcgagga atttgtccag tcccagcagt tgagaaagcg 120  
aactgctgcg gtgtcagaga ttggccaagc ggatgggtgct gatgatatgg ccgaatgaat 180  
tgtgcgagca gcagggatgg acattttctt ttgtgggtggg gaaagacgga tgctaattta 240  
cgcgaaattt accagttcat cggtcctgat aaaatcgggt tgccagcttg tgtcaccatt 300  
tgtctccatt ctttgtaaat gttgtaagt caccggttgta attttaagtc cctgtttgtt 360  
tacctttgaa aaaaagtatt ct 382

<210> 12507  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-A2

<400> 12507

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gaaatctgca acctcaattg tgtaactgca aaaaccatga agctgggtgct tgtggatctt 120  
gctttcattg gtttaatatc aagtggtttt tggacacaga caggcggctg cagctgtggg 180  
caacaaccaa ggcattgagcc ataacttcat ccacaacagc atgattcacg gaaacaacga 240  
catttaacac catcacaaca ttatctgcag tagctaca 278

<210> 12508  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-C3

<400> 12508

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ccagtggagc cctactaaga aaggaagagg atggggatgt tttcttgttg agctatacta 180  
gtcgcgtgct gccttttgtt acaatgtttg tacggtcgca ataaatgtat ggctcgtgttt 240  
gtcgcgagagc tactcagggtg attttgtcgt gggagcacca aaagcagaaa agaactgttt 300  
tttta 305

<210> 12509

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-F5

<400> 12509

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agcagcagga cgtcgtcgtc gtccccgctc ctccgaatct tctgaataaa aaaaacagct 180  
tgcattgcgtg ctcaattgtt gtgtgtcgtg gtcgatcatg agtagaatta atgtttcatg 240  
catgcactct taccgtcttc tacttatgtc cttgtttgct tcaataatct ggcttgtgcg 300  
ctgggtgtaa aaaaaaaaaa aacaaaaaaaa aaaaaaaga aagc 344

<210> 12510

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-G2

<400> 12510

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gcttggtcag tcgatgtacc atgttaatca agtgctagcc ctttctctgc tctgtcgtcg 120  
aagttcttcg gtcttcactt cttgatctgc agatgatata tgaaaacggt atacgaaatg 180

gaatataata ttctatcttg ttgac

205

<210> 12511

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-001-Q1-K2-H2

<400> 12511

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tcttgccagag gccatcctag agaaatcgga aggcaagggtg cggctgaccg gcttggggcgc 120  
ccgtgacagt ctccgactgg aggcaggcct gtgcctgtac ggcaacgaca tggagcagca 180  
catcacgccg gtggaagccg gcctctcatg ggcgatccgc aagaggagga gggcagaggg 240  
cggtttctctg ggccgagacg tgatcctgaa gcagcttcag gaaggcccaa agatcaagcg 300  
cgtgggcatg gtcacgcaag ggccgtccgc gcggagccac agcgagctgg tgaaccgctc 360  
gggggaaagg atcggcgagg tgaccagccg gaggttcagc ccgtgcctga agaagaacat 420  
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<210> 12512

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-001-Q1-K2-H9

<400> 12512

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taccaacaat ggcagccaaa atattttgct tccttatgct ccttggtctt tctgcaagtg 180  
ttgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc cttcttcccc 240  
catacctctc accagcgggtg tcttcaatgt gtgaaaacc aattgttcaa ccttacagga 300  
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<210> 12513

<211> 433

<212> DNA  
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 <223> unsure at all n locations  
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 gtttgcttgc gatgttcagg ggcgggtgggt ggcgccacgg tgctcgagct gaggcaccac 180  
 agcttcagcc ctgcgccggc caacagcagg gaggaggagg cggacgctct cctgtccgcc 240  
 gacgccgcgc gcgtctcgtc gctgcaaggg cgcataagagc actaccggct gacgacgacc 300  
 agctcgtcgg ccgaagtggc ggtgacggcg tccaaggcgc aggtgcccgt cagcttgggc 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-A11  
  
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 gaaactggaa ccttttcagt gttaacgttg caatggcggg tacaggcctg tatcagcttt 180  
 cacggaagat caggcaagat tacttatccg atgagaaaga tgctgcttaa cacctggagg 240  
 cttaattaat gacaacaggc aaagattacc ggatgggaaa gcctgcatcc taggagtcta 300  
 ctctggattt ttttttcctg gccagccaag gattaccgat tggtaagggt tggtttcccg 360  
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<210> 12515  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-002-Q1-K2-A3

<400> 12515

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cgaacaacaa ggggaggaac agcattggat gcctgttctg gcttttgccc aggatggttc 180  
tgcagatgag gggcactatc ctccctgggc acaagtggga ggtcatgggtg gatttgttct 240  
tctacagggg cccagaggaa gcaaaggagc aggaggagga agctgctgtt gcccctgagt 300  
ttgccgcaat cactgattac caaggagctg atcagtgggg tggtgaccag tggacctctg 360  
atgtgactgc gccgnctggt gtcctactg gtgctgattg gggtgct 407

<210> 12516  
<211> 158  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-A8

<400> 12516

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ctttgttcat aaaccttggt ttaagatgaa gttgtggc 158

<210> 12517  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-B4

<400> 12517

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ggccgccaag gccaaaagga gatgattacc cctaaaagcc tcgattgcca agaattcgaa 180  
gtggaaaaag ccgtggcgat ggaatcgag accattcggc acatgatcca agatgactgg 240  
tccgacaacg gtatcctctt ttctaacgtc aacttcaaga tcctatccaa ggtaatcgag 300



tacttgaaca agcacgtaca tgccgtcgtc ggcgtcgtcg tcgtc 345

<210> 12518  
<211> 106  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C11

<400> 12518

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gtgtcaccat ccattctataa tcttatccat accccacctt ttgtgt 106

<210> 12519  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C4

<400> 12519

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atccgactga taataaaatg actcgggata ggacaaaata taataaaaaag tgaaccatt 120

ctaaagactc atgcttacct aaatac 146

<210> 12520  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-C5

<400> 12520

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acactaaagc gactgaggct tatagactct ctaaaaacct caataactat ctcaccattc 120

atcaccaccc atataaaaac cctcaactta ttaacaactc tccataatat ataacttcac 180

atcacatact acaaaacatt aaaatactac caattactat tctaccacca ataataactc 240

atagactcca tcttcaaag tatccaaatc attcaaatac cac 283

<210> 12521  
 <211> 153  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-C9  
  
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 gagtttttct gtcttatata tcctgaattg gtt 153

<210> 12522  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aaacacttta tggcattgct ttccgaaact ctgaaagctg acgacccta gctttggaga 120  
 cttgaaccac ttgatcagtg caacgatgag tgggtgtcact tgctgcctnc gcttcccagg 180  
 acagcttaac tctgacctgc gcaagcttgc agtcaacctg atcccgttcc ctccggtcca 240  
 cttcttcatg gttggctttg cgccactcac ctccgctggc tcgcagcagt accgtgcgct 300  
 caccgtccct gagctaacc agcagatgtg ggatgccaag aacatgatgt gtgctgctga 360  
 cccacgccat ggtcgctatc tcacagctc tgccatgttc cgtggcaaga tgagcactaa 420  
 ggaggtgatg agcaaatgat taa 443

<210> 12523  
 <211> 323  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-002-Q1-K2-D4  
  
 <400> 12523  
  
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catccgttta tgtttttggt ggggatttgg ctttttatac agggcagtca atcatattgg 120  
tgtaagtggc aattaaacga tctagtgcgt ttaatcaaaa tccaatggcg accggtattt 180  
acatttactg gaacctagta ctattttatg ttaaagctcc tccatatgaa attgctagaa 240  
ctagattgaa tgctttgctt tcaccaaagt agtgattgca catgattcac cttccacctt 300  
aaggggcaca ttcatgatca acc 323

<210> 12524  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-D7

<400> 12524

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gatgcttgag tcagaagaag taccataccg ggaggatcgg agaaatcgta gaagtcgcac 180  
tggaagcatg gatattgagt ccattgcaga gggttccaac tctgcggagt ttggaaagaa 240  
ggtagaaagg actggaagct ctatatctga cagatctcaa ccatgaggcc tggaaatcta 300  
agctatatca ggaactgtct cagaaacgat gttaatcacc aagggtgattg ctgtcctgat 360  
aggggatgct ggtaggtgac 380

<210> 12525  
<211> 104  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E11

<400> 12525

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tgtaaattga tcagtttaat taccatactg tgctgctttg agcg 104

<210> 12526  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-E3

<400> 12526

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gatgagtggg tctgaatgtc tgcatttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 120  
caaccggctct acaggactca agcttacata ctcacgcacg cgaccatgca actccataat 180  
agtgccacct agacacatat aactaaccga ctgtccacaa cgttacaact gggaaaaccc 240  
taaaaccacg caactacaaa acttaacagc acatccccac atccccatct ggccagctag 300  
cgaataggcc cagaccgatc gccctatcga acattcgaac aggtctgcat ggctaaatgg 360  
acaacgccac gtagccctgc atta 384

<210> 12527

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-F4

<400> 12527

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tacaatgata ataaaaataa aaataggaaa aaaggaaaaa aaaaaataac tataatcaaa 120  
taaaagggcg acctttttgt gggaccctat tttagttcac gtgctttcga tgtcatactt 180  
cttgatggg gtcacctaatt ttctatt 207

<210> 12528

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-G4

<400> 12528

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cctctgggtca accattagtc gatgactggg actgtttgaa gaggatgggtg cggattttcg 180  
agtcccagtg tgggtcactt actcagtacg gcatgaagta catgagagcg tttgcaaaca 240

tctgcaacag tggatatatct gagatgaaaa tgagggagtc gagcatcagc gcttgcagca 300  
gctacaactc ggcgaggtgg agcccgatgg ctccggggaca cagtgccttga tggtaaagat 360  
caaatagcaa agccccccga ggtctgctgc cccatgtccc tgtgagcgag ctcgatatcat 420  
ctggggactg 430

<210> 12529  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-002-Q1-K2-H2

<400> 12529

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aggaactata atgacgttgt cttcatggtc atcttgcagc attgaggaag ttagctcaat 180  
tgcaccagga ctccgtttct tacaactttc agtattcaag gatagggata tcgtgcaaca 240  
gcttgtcaga agggctgaaa atgctggcta taaggcaatc gccgtcactg tcgacgctac 300  
acgccttggg cgcaggggaag ccgatgtcag gaacagattc 340

<210> 12530  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A10

<400> 12530

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tagccgccgt cgttcgcata gctgagagga cgctaccata tgaatgggat caagaaccag 180  
gaggacgaga cggctactgc cctaaagtct ccgtctacct atctaategt tagtcgtcag 240  
tcttttaaac ggtaagagag atcatttggg ctcatagacg aaggcttact gcatagccat 300  
cgcttgagct gccatcaagt acatgtaggc aaattcgtca acttagtgtg tcccatgtcg 360  
taattctt 368

<210> 12531  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-003-Q1-K1-A12

<400> 12531

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 agctaagcac tcattcattcg aacaagttca agaaaactag ataattattat tatattgggt 180  
 aacgctactt gtccatcctc actcctcatc ctcatcgcca gcatcgccgc caccgcttgc 240  
 cttctttctga ttctttctct tcacccttcc tgcggggcct ncaccgaatg ggcttgacag 300  
 tgaaaagtca atgtgcttct cagactccac cctcaccatg aatgatgggc gccggcgggc 360  
 tgtacccta cgaggagtac ctgaggcagc cgcagtgcag cccgctggcg gcggcgccct 420  
 actacgcc 428

<210> 12532  
 <211> 86  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-A6

<400> 12532

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 gattaacgag tgatcgagca agctta 86

<210> 12533  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B1

<400> 12533

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agagaaacga tatggttgag tacttcggtg agcagctctc cggttttgcg ttcactgcca 180  
atggctgggt gcagtcttat gggtaaggt ggcgaagcc tccgatcatc tacggtgacg 240  
tgagccgtcc caaccccatg accgttttct ggtcgaagac ggcacagagc atgacgtctc 300  
gcccaatgaa ggggatgctg actggcccag tcacaatcct caactgggtcc tttgtccgga 360  
atgaccagcc gagggttgag acttgctacc cagatcgtct tgcgatca 408

<210> 12534

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B2

<400> 12534

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tatcaagtac tgaggagctg tgctttgtca tcagtttttg ggaacatcta gtctttgttt 180  
taagtgttcg gtaacagttt gtgacagtat aatctggtaa accgtgttat ttttctgcca 240  
ctcctatttg aacacatttt ctagctgggtg aatgaactgt ttggtcgatc ttgttcagat 300  
gtctggttcg cattcgcatt ctgagagatt tcatgtctcg tgctaaa 347

<210> 12535

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-B8

<400> 12535

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gctgtcgaat gacactatgc aatgtgatct ggaacctggt ttcttgggtg cgacgcttgt 180  
agccgtgtta tgactgtcgt ccgtaaaatt tgggggctcc ccgtaaggga tgctgcctgg 240  
caaggcctcg gtgtcccacc tcgtctgtgg cgtggggcgc tggagcccg tctggttggg 300  
ttgggaagcc ctttaaactg ttgtcacttg cattttacct tttccatcgc tgtttattgt 360

gagtggctct atatcaatgg ctggtctcag tgggtctatac gt 402

<210> 12536  
<211> 80  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C5

<400> 12536

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aaaaaaaaa aaaaaaaaaa 80

<210> 12537  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-C7

<400> 12537

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ctgccaatgt gagtgccaaag aggaagagga ataagaatgg gcagggtgag gatgatgttg 180

cgatgcagga agaagttcat gtggagatag agaaagagaa gaggaaaagc attgtgattt 240

ctgctaatga cagccatatg gctggcgaga atggtgaaca gatgggcaaa cgtagtttgg 300

aaaataaggt gaacgaagcc agtttggaca acgtgaacgt taagatggtg aagactgagc 360

agaggaagat gaagagcatg aacggtgatg gtgaaatcag tactg 405

<210> 12538  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D10

<400> 12538

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tgccattcaa ccaactagct gcattgaact ctgctgctta tttgcaacaa caactagtag 180  
taccattcag ccagccagct gctgcctacc ctcagcaatt acttccattc aaccaactag 240  
cagcattgaa ctctcctgac tatgtacagc agcagcaact actaccattc agccagctag 300  
ctgctgtgag cactactgcc ttcttgacac agcaacaatt gttgtcgttc tacctgcacg 360  
ctgcgcctaa cgttggcacc ctcttacaac tgcaacaatt gctgccattc aaccaacttg 420  
ctttgacaaa cccagcagcg ttttacc 447

<210> 12539

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D11

<400> 12539

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gaactatgat gcttataagc aacaacaact aggactacca ttcaagcagt catatgatgt 180  
ctaccctcag taatttgta cattcaacca actaccagca tggaactatc aggtctatgt 240  
acaggcgtaa caactactac cattcaggca gctaaatgat gggagccctg atgccttctt 300  
gacac 305

<210> 12540

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-D12

<400> 12540

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ggagtcttat gctgacattg gtggcttgga tgctcaaatt caagaaatca aagaagcagt 120  
tgaacttccc ttaacacatg ctgagctatc tgacgacatt gggatcaggc catcgaacgg 180  
aggtatacta tatcggaac ctggaac 207

<210> 12541  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E1  
  
 <400> 12541  
  
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 gcggtgccgt tcgtcatcgg ccccgggatg ccgcgcgacg gcaccaccg gtttcgggac 240  
 gcgcggggga gcccgctgca cgacctcctc gtcgtcttca gcttcagcga gtacaccgtc 300  
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<210> 12542  
 <211> 192  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E7  
  
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 cctactagtt atgagaaggc tgctgtgtta aaaatatacc atataaaaaa aagaaaaaat 180  
 aaataaacta ac 192

<210> 12543  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-003-Q1-K1-E8  
  
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 gcggaaggag gcgtagcgtc ggggtgtggc cgaaatttac tgggcgggag gggaccaatg 180

gattggatac ggaaggaggc gtagcgctcg gtgctgctt ggatggacat ggactatgca 240  
 cccatctctg ccccatgaac cgttgggtgtg ctttttcgtg gacaagcact gtagaaatat 300  
 tgcagaacag aagtgataat ataatacctg 330

<210> 12544  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F11

<400> 12544

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 ggcggcgagc gtcttttaggc ttgtttatgt gtgtgagaag gacttcttct ttttcgtggg 180  
 tttaggcgtg gggaaagagc tccttttatt aagctccttt aaccaccttt ttttttgggt 240  
 gttcagattt tctatctttt cagttcgacg ctttttgt 278

<210> 12545  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F3

<400> 12545

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 gccccgcgcg tcggacatcc actcgtcctt gaggtcgatg agcctctggc cggcgtcgtt 120  
 gacggtgccg tcggcggttga cgagcgcggc gtccctgccta cacatgtggc cctgcatgaa 180  
 cccccagagc acgacgccct gcaccgccgg gtgcgcgaac gcctcgcgca ggaccacctc 240  
 taggtcgtcg gcgcggagcg cgtcatcggg ctgcgagacg tcgacctccg tgaaccagac 300  
 gggcaagccg gtggcggcgt agaccgtgtc gagcgcgtcg cagatgacct cggcgacggg 360  
 gtgggtgacg tggccctgca tcccagacgc gtgcacccgg gcgccgtccc gctgcagggc 420  
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<210> 12546  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-F6

<400> 12546

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 ctttttagagt cgggagctct aatgcaacgg gtcattgcttc tgattcgctg gttccttcaa 180  
 gcacgaaagt tgaagattta acctccagtc ggcaggacat atttcttctt cccctgagag 240  
 ggcacgacga ctcgacaaag tttgagtatg gaacgtactc gtgcatgcta ggcattgatcc 300  
 gtgatcagat cctgtcatgg ccggcgagggt cattctcgaa gaacctctcg gagcgtgact 360  
 ggctgaggag ctcagcgagg atctgggaca tgggtgaagaa gtccccgctc atctcggagt 420  
 actgcaaggc gc 432

<210> 12547  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-G1

<400> 12547

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 agaaaaaact gctatcgccc ctacgaacat ggattaccac ttgccaaaat ggggcgtcca 180  
 ctttataaga tccaatgctt agcacactct catgcaagat ggctgctttc ctatagagcc 240  
 ccctaaatta aggatactgg cctgtgcatg tcaccacaga gacttgggaa accatggcct 300  
 ttccaattt aacccttttg ctgaaaagcc tcgttttgac agctaccgtt aaactgataa 360  
 ggcc 364

<210> 12548  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H1

<400> 12548

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gccagccacc gccgcgggtt catctaccgg cgccgggtgca tctgccacct ccggttcacc 120  
tgccacctcc tgtgcatctc ccaccgccgg tccacctgcc gccgcgggtc cacctgccac 180  
cgccgggtcca tgtgccggcg ccggttcata tgccgcggcc accatgccac taccctactc 240  
aaccgccccg gcctcagcct catccccagc cacacccatg ccggtgccaa cagccgcata 300  
caagcccgtg ccagctgcag ggaacctgcg gcgttggcag caccgccatc ctggggcagt 360  
gcgtcgagtt cctgaggcat cagtgcagcc cgacggcgac gccctactgc tcgcctcagt 420  
gccagtcggt gcggcagcag tgttgccagc agctcaggca ggtggagccg c 471

<210> 12549

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H12

<400> 12549

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aagaaagctc cctcagggcc tatgcatgag tctctgatta ttgtgcagat gaactgttct 120  
ggacattttg aacatgcaaa tgtggaagcg tcaactgtcag ttgaattatg tttcagccga 180  
attgagaagc gctaaaaaaaa aaaagaaaaa tt 212

<210> 12550

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-003-Q1-K1-H2

<400> 12550

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ttgatgctga tgtgacagct aatagtttaa cataccgtaa tggtactacg tgatacacga 180

gtaagaataa tgaagggtgaa ctccgatctt gcatatctga aggtaacaag gttgatgtca 240  
 agaacatgct gaggaaggtc aagtgagtga cattacatca gaataagaac ctggcctaata 300  
 atgggatgct ggctattagc attgggaaat attcatgcat tatgatagcc atcattgaca 360  
 agaatgctcg aattggagac aatgttaaga tactcaatgc tgacaatgtg caagaagctg 420  
 caatggagac agactggtac 440

<210> 12551  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-H6  
 <400> 12551

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 gtgctgggca agaaaagttc ggtggcctta gggatggcta ctacattcat ggtcagtgtg 120  
 ccatcattat gtttgatgtc acttctaggc tgacatacaa gaatgttccg acatggcaca 180  
 gggacctgtg caggggtctgt gagaacatcc ccattgttct ttgtggtaac aaggttgatg 240  
 tcaagaacag gcaagtcaaa gccaaagcaag ttacat 276

<210> 12552  
 <211> 184  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-003-Q1-K1-H9  
 <400> 12552

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 aaaactaaag tcttatgtat ggtcattatg tactattttg gttctgaaaa tattttgttta 120  
 tgttatgaaa actattgggt gaaagaatgg tgattacggt tttggcttga aggttcagaa 180  
 gtga 184

<210> 12553  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-A2

<400> 12553

tccggttcaga ttcccgggcc gaccacgcg tacgatccat atcagcatat eggcaattct 60  
cttagaggat cgtcgaacag aacaccatga agggggacat tgatctcgtc gtgtgcctgg 120  
ctctgtcagc tgccagcgcc tctgcaatgc agatgcctg cccctgcgcg ttgcttcagg 180  
gctagtacgg cgctggcgcc ggctgacga cgatgatggg cgccggcgga ctgcaccct 240  
acgctgagta cctgaggcag ccttaatgca gcccgtagc tgcgacgcc tacta 295

<210> 12554

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B4

<400> 12554

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agggttttcat gccactcaac cgcttgaatg ctgctcgtag gcgggcattc actcaatata 120  
gaatgtctgc gcttttagttg ggttgggctc caaagtttca atgttccagc attcctcagt 180  
cgaaatttac aatgcctgca aaccacatcc tactcttgag attcacaacg cccgatatgc 240  
acaaagatgc cccaaagggtt gctgtcctcg tgtttcgtgc tctgattgtt gagtcttcaa 300  
tgagagctga ttccagatat atagagggtga acaagcttat gattattacc tttggtaatt 360  
tggtgcaaca taatagaggt gaacaagctt attaaaagaa gatccttgta caaatcaaga 420  
gttcaatcca atagatgaaa cgatattgtg attctctcaa tgggtggct 468

<210> 12555

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-B8

<400> 12555

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cgggcattca ctcaatacgg attgtctgcg ctttttttgg gttgggctcc aaagttgcaa 120

tgttccagta ttcttcagtc gaaatttaca atgcctgcaa accacagcct actcttgaga 180  
 ttcacaaccc cgatatgcac aaagatgccc caagggttgc gccctcgtgt ttcgtgctct 240  
 gattgttgag tcttcaatga gagctgattc cagttatata gaggtgaaca agcttttgat 300  
 tatttctttt gttaatttgg tgcaacatat agagggtgaac aagcttatta aaggaagatc 360  
 cttgtacaat caagagttca tacaatagat gaaacgatat tgtgattctc tcaatggtgg 420  
 cttcatgagc aagcaatc 438

<210> 12556  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-C2

<400> 12556

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 tgcattcatt attttatagt gaatacttgt ttacattgcc tgtttaccac aatatattct 180  
 tgagattaat aacatagttt tgcacaatga tgccctactg ttgcttacat tgtgtttctt 240  
 gctcttattg atgattcttc aatgatagct gattccagtt atat 284

<210> 12557  
 <211> 115  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D11

<400> 12557

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 cgtcattact ttgaagaaaa agccaagctc tagaagtttg ccaaagattc ttgcc 115

<210> 12558  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D5



<400> 12558

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actgccgccc accgctcgcc cacgcgcgct ccattacctc ggcgggcgat ggccgacctc 120

tccaacaccg gctccacctc acacgagcag cgcggccgcc taggcggctg gctggtcggt 180

cgtcgagcag ctageggcgg cagcgcccgg aggcggtctc actctcctcg tcggggcggc 240

aggagatgga ggccatcgct ggcgcccgcg cgcgcgcgcg tggcgcgtgc tgggcccggc 300

tcgagaagcc gccgcgcgcc gcttgctgctg ccagagtccc gacggcgagg ctgcggtcgc 360

cggcggacag gccgcggagg ctggtgctgc tgggcgccga tacgcggagg gccgcggatt 420

atcctgccct ccgttgcg 438

<210> 12559

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-D7

<400> 12559

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gcaacataga aagtggaatc cagtagcatc aatagagcat caatggcgac caagatttgt 120

ccctacttat gctccttgct ctttctgcat gtggtgctaa cgcgacggtt ttcctcaat 180

gctcacaagc tcctatagct tgcccttgta cgccatacct tacatcaatg atagctggac 240

tatgtgaaaa ccagctctt caacctata ggctccaaca agcaatcgca gcaagcaaca 300

tacctttatc acccttgttt caacaatcgc cagccctatc tttggtgcag tcattggtac 360

aaaccatcag ggcacagcag ctgcagcaac tcgtgctacc tgtgatcaac caagtagctc 420

tggcaaacct ttctccctac tctcagcaac aacaatttct tcattcaac caactgt 477

<210> 12560

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E12

<400> 12560

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 gcaacgacga tacttaatca ctgaaatttg cctagtgtaa gagctttgat aaagttgaag 180  
 gcagagaatg gtatgagatg gttatgagaa g 211

<210> 12561  
 <211> 66  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E4

<400> 12561

cggacgcgtg ggaaaaaaaa aaaaaacatt aataagacaa aaaaaaaaaa aaaaaaaaaa 60  
 gaaaaag 66

<210> 12562  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-E6

<400> 12562

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 tctgatgttt gtggcttccc agaaataata aagtccattt ctaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggccg cccgttttaa 240  
 aggatccaag cttacttacc cttccatcca acgtaatacc ttttctatag ggccccctaa 300  
 atcaaattca ctgcccgtct tttaacaact tcgaaactgg aaaacccttg gctttcccaa 360  
 actaaatccc tttgcagaaa atcccctttt cgcaagttgc ctaattacca aaaa 414

<210> 12563  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-F2

<400> 12563

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cattgttgct gcagccacaa gagtccagaa caacagaaaag gcaagattta atccaactca 180  
taccacaaccg tgcagtttct tttattacaa aaaggggaagg agcagcattc atagggtgtgg 240  
agcaccgatc aacttgaaac caaaaccaga ggtgcgttgg gcctcaaaga ttatcgtcga 300  
tcaggcctac aggaagtttc tgatgtccaa tttcctgaca tcaggcatct cctcatcttg 360  
aaactcctcc ctcttgag 378

<210> 12564

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-G10

<400> 12564

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gagcgggttca ggttaattgg aaagatctgg actattgcaa tgtttgtgat atggatgagg 120  
agtatgaaga caacttattc ttgcaatgtg acaagtgtcg tatgatggtt catgctagat 180  
gttatggtga acttaacaaa ttggatggag gactttggct ttgcaacttg tgtcgaccag 240  
gtgcacctcg tgtgtctcca aaatgctgtc tatgtccagt cacagggtgg gcaatgaatc 300  
ctacaacaga tggccgttgg gctcatctcg catgtgctat atggatccct gaaacatgct 360  
taaaggatgt aaagagaatg gaacctattg atggactgag cataatc 407

<210> 12565

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H10

<400> 12565

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gggtagataa acatataggg ttgatgagtt gaatattaga tagttataat gagtgaatc 120

tgagatttga aggcatattc gattacactt ttttgaaggc tatcaacact gggaataggg 180  
 ctggccgttc tataggatat atgcttacgt tcgcttgcat gttacgttat atctctttta 240  
 tagtgttacg taaattccat tcaactgttg gctttttaca acttcctgac tgggaaa 297

<210> 12566

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H2

<400> 12566

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 gaaaagtgag aaataaacac atggccattt ctagtccatc tttactccaa caaaacctta 180  
 gatgctgctc ggggtacatga acactctgac cttgcgcccc atggactcat gcgggaggtt 240  
 ggacttgaac ttggcacgga cgacgcccga gtttacgtgc ggacgggtga ccttgcccca 300  
 gatgcacctg tagcgggtct catagctctt ggtcttggcc ttgtagatgt acgccatgct 360  
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<210> 12567

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-004-Q1-K1-H4

<400> 12567

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 gcagtttgcg gctaactccg caaccctctt acaactacaa caattgttgc cctctgtcca 180  
 acttgctttg acagaccag cggcctgcta ccaacaacac atcattggtg gtgccctctt 240  
 ttagattgct tattagctgt aattcaataa tatagttttt tggatgatgt atgtggccaa 300  
 ccagaagtac gatgttacat ttccagattc taatgtgata ttggtctcca agggagtcgg 360  
 attaaagaag ccgaaatc 378

<210> 12568  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-004-Q1-K1-H5  
  
 <400> 12568

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 gaacgagttc ttggctcgagg tgctcatgct tacagtgtct aaccatcgca accttgtcag 180  
 cttggctcggg ttctgcgcgc agggggacga gaggctgctg gtctacgagt acatgccgtt 240  
 cggaagcctg gagagccatc tgtttgacgt gcctctcggc aagaaaccac tcgactggaa 300  
 cacgcgcgtg aggatagccg tgggagtcgc ggaagggggt tcctacctgc acaacgtagc 360  
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 cagcccca 428

<210> 12569  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-A1  
  
 <400> 12569

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 ccagggtgaag ttcaagagaa agcgcgctgg caagacagac tacagggcca ggataaggct 180  
 gattaaccaa gacaaaaaca agttcaatac acccaaatac agatttgttg tgcgatttac 240  
 caacaaggac atcacagcac aaatcatatc tgctagtata gcaagtgata tggttcttgc 300  
 ttctgcttac tcgcatg 317

<210> 12570  
 <211> 415  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-005-Q1-K1-A11

<400> 12570

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gttgaggctg accagatcgt cgcttggttg aaggagtact ttgacggcaa attgacgccg 180

ttcaggaagt ctgagcctat tcctgaggtc aacaatgagc ctgttaaggt ggttgctcgt 240

gacaacgtcc acgacttcgt cttcaaactc ggcaaanatg tccttattga attctatgcc 300

cactgggtgcg gacactgcaa gaagctggcg cccatcttgg acgatgcagc caccactctc 360

cagagcgacg aggaagtcgt gattgctaag atggacgcga ctgccaatga cgttc 415

<210> 12571

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A3

<400> 12571

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ttctacatgt gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc 180

ccttcttccc ccataccttc catcaattat agcttcaata tgtgaaaacc cagctcttca 240

accatatagg cttcaacaag caatcgcagc aagcaacata cttttatcgc ctttggtggt 300

tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca gggcacaaca 360

gctgcagcaa ctctgtctac ctctgatcaa ccaagtagct ctggcaaacc tttcttctca 420

ctctcagcaa caac 434

<210> 12572

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A4

<400> 12572

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atccttattt ttgctgaagc gcttgccctc tacggctcctca tcgtcggcat tatectctcg 180

tcccggtgccg gccagtcccg cgcagattat aggcacgttt cagatgtcaa caccgtgccg 240

tgcacagttg cctggctgta gctgggtcat gttctatata catgagacac gaagctggag 300

cactttgaga ggcttacttt tatgctgtct agttctccat cttctgttga gtcgagaaaa 360

caagaaaggc tgtgtaatca agggatgact ttacccttg tgccattctt ttccctgtcg 420

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<210> 12573

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-A8

<400> 12573

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cggccctgct cgcgccgcgc ttggccggcg gcccgggccg gctgtgggcc gggttggaacc 180

ggatccttgc ctgaaccaat tggaccttcc agaacctagc cgggtgggcc ctggggccagc 240

caagccccca aagcctggcc gccaccggct ggcggttccg cgggttgtgc cccgctaacc 300

acaagtcttg ttccggatga actaccggct tttta 334

<210> 12574

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B3

<400> 12574

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gacctcaagc ccgacatcca ggtctccaag aaccagatcc tgtactgtac aagcttgagc 120

tggagtgcgg acggaagcac catctagcct gcgta

155

<210> 12575

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-B6

<400> 12575

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accctgaaaa tgcacgatga atcacataat cgacagaagg ttgatgatga tgtccaagag 180

ggtgctcttc ctgcgtatct actggatcgt gatcagactc agcgtgctac ggtactcagt 240

aacgcactca agcacacgat gaaggaaaag gctggcgaat gggatgttcc gctgccaaag 300

gtcatacctg ttgct 315

<210> 12576

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C11

<400> 12576

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atccatgggg cgaagtttta catctacgcg acggggaaaa ccgtggcggt gcccaactta 180

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<210> 12577

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C12

<400> 12577



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 aaccatcagg gcacaacagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 180  
 ggcaaacctt tctccctact ctccgcaaca acaatttctt ccattcaacc aactgtctac 240  
 actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc tagctactgc 300  
 ctactctcaa caacaacaac ttcttccatt taaccaattg gccgcactga accccgctgc 360  
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<210> 12578

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C3

<400> 12578

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 catccggaac aataattaaa ggggatccgg atttgttctt gtgatataat taacgattcc 180  
 tggtatactt ggaagtagct aggctcgctc ccatccaatg caagcaaaga tctgatctcc 240  
 caacgtgcat gagaaaatgt gagcgattta cttcaccggt ctttctctta attaaatgga 300  
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<210> 12579

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-C4

<400> 12579

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 aacacccaat tgaataatgc taatacagct caagtgctgc aagggatgca acccatgggt 180  
 gtcatgggtg ctatggggat gaaccagacg agaccgaatg taactatttc ctatgggtgct 240

caacaaaagg ttgcccaagc acaaatgaag gcacaagcat tttacaacc t 291

<210> 12580

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-E1

<400> 12580

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gcttcaagct agtctcggcg gctctagaag acgatgggca aggacgacgt gatcgagagc 120

ggcgctggcg gcggcgagtt cgctgccaa gactacacgg acccttcccc gcgcccgtg 180

atcgacgcgg cggagctggg gtcttggtcg ctgtaccgcg ccgtgatcgc cgagttcatc 240

gccacgctgc tgttctgta catcacggtg gccaccgtga tcgggtacaa gcaccagacg 300

gacgcgtcgg cgtcggggcg cgacgcggcg tcggggcgcg tgggcgtgct gggca 355

<210> 12581

<211> 465

<212> DNA

<213> Zea mays

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<400> 12581

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tcaagatggc ggcgtcggat gttgagtccc gctgcttcgt cggcggggctc gcctgggcca 120

cggacgacca ctctcttcac aacgccttca gcacctacgg cgaagtctc gagtccaaga 180

tcattctcga tcgggagaac cataagttcc gccgggttcg gttcgtcaac cttttcaacg 240

aagaagccat tccgaaccgc cttcaaggcc ttgaccgcaa aggagctgaa cggccgcacc 300

ataaccgtca acgaggccca atcccgcggc ggccgtgaag gcggcgggcg tgggtacggt 360

ggtggccgtg gaggcggcg ctacggcggt ggccggcgcc gtgatggcg cggcggctac 420

agcgggtggc gcggctacgg tggcgggcg ggctacggtg gtggt 465

<210> 12582

<211> 262

<212> DNA  
 <213> Zea mays  
  
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 agggcaccac caatgatggg ttgttggtat gaacactgat gggtttgtca aagcaagttg 180  
 gttgaatggc atcaattgtt gcaattgtta taagggtgcca agctttggcg caacgtgctg 240  
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<210> 12583  
 <211> 303  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-G10  
  
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 atttagcgcg atctaaatga acattcagtg gctgcatttt taagtgcac cataatgtga 180  
 aaactgctgg ggctaacgaa attaatctga ttgcatctca tcaaggttta tcaagctggg 240  
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 aat 303

<210> 12584  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-G12  
  
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 aagttttggt tttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaatat aaaaaaaaaa ataaaataaa aattatatac aaatgtataa ag 232

<210> 12585

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-G6

<400> 12585

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gtcctatag cttcccttct tccccatac ctatcaccag cgggtgtcttc agtgtgtgaa 180  
aaccacaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
tcacccttgt tctccaaca accgtcagcc ctattacaag agttacctt ggtccatttg 300  
gtggcacaaa acatcagggc acaacatcta caacaacttg tgctagcaaa ccttgctgca 360  
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
tatttgcaac aacaactacc att 443

<210> 12586

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-005-Q1-K1-H3

<400> 12586

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ctgcaacgtc ggatgacctt aaggcctagt gggaggagaa gggagcatga cgcagccctg 180  
ggcctgagcc agggccatca ggtgggcca tagtttgggc cacaatttcg gctgaattga 240  
ttagcgcagc gtacgatccg tgatgaagag gaacccaat gtttatctgt ttaagttaaa 300  
tatcttttga agggttgtgg atgtgagagt gctggctggt gtctaaagct ccgccattat 360  
agaaggtttg agggactgtc actgtcagat aacaataaac tggagtgtt acagacagag 420  
tcatcgtgaa aacgatagtg tct 443

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 <212> DNA  
 <213> Zea mays  
  
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 atatgtacca gggttcaaat gtctattgct atgacagttt ggccttaact aagagatctt 240  
 ttagtgactt gagtgccatc ttacgggaaa agagtggcct acaggatacc ctaaattgtgt 300  
 cggtagaaga aaagcttaca atttttctgc ttatagtagg tcataacacc aaaatgaagt 360  
 tgatccgtag cacttatggg tggtccttg aaccaatcaa tcgacacttc atcgaagtgc 420  
 ttatagggat tctatcttta agtcatg 447

<210> 12588  
 <211> 154  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-005-Q1-K1-H9  
  
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 ggataagcaa atagcttggg gagttggcgt tcgattgtta tattgagtga gaactgagat 120  
 ttgaaggcat cttcgagaca cttttttgaa ggca 154

<210> 12589  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ctggggcgca tccaagcttg tcccagacgg atatggatc aagaagctgc aaatcatgat 180  
 gaccatagtc gacgatcttg tctctgtcga cactctcatt gaggactatc tgtgcgctga 240  
 gccagttaac gagtacgtcc agagctgcga catcggtgcc ttcaacaaga tctagggctg 300  
 actttcgatc agtccttccc ctgggggtgct ggcgatgggtg gtggctgggc aatgcaccag 360  
 cctaattttt ccataacttt atgtctgctt tgtgttggcc agtgatattg ccgtgag 417

<210> 12590

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-A9

<400> 12590

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 agtgataaaa gatcagagat ctatactaaa aatacacaag aaataataaa aaaatagaaa 120  
 aaaaaaaaaa aaaaaaaagc tatagaaaaa agaaaaaaaa aaaaaaagta aaaaaaaaaa 180  
 aaaacaaaaa aaaaaaaag ggggggcatc ttttaaggat cc 222

<210> 12591

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-006-Q1-K1-B3

<400> 12591

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 atatcttggt aaagttcaga cagagaacct aagtcacaat aaacatagga ggaaatgaag 180  
 gtatatatgt ttgagctaga ttttgaaaaa atgaaataat aagttgctaa aacagacctg 240  
 tgctaaaatt ataaaagata aaaaaaaaag attgaaagaa tatgaaaata aaaacaaggg 300  
 cggcccggtt tatagggtcc aagcttacgt accccggcat t 341

<210> 12592  
 <211> 72  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-B6  
  
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 aagtccattt ct 72

<210> 12593  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-B9  
  
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 ctgcatgtgt tgctaacgcy acaattttcc ctcaatgctc acaagctcct atagcttccc 180  
 ttcttccccc ataccttcca tcaatgatag cttcagtatg tgaaaacca gctcttcagc 240  
 cctataggct ccaacaagca atcgcagcaa gcaacatacc tttatcacc ttgttggtttc 300  
 aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacagcagc 360  
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 ctcagcaaca acaattttctt tcattc 446

<210> 12594  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-006-Q1-K1-C2  
  
 <400> 12594  
  
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acgccttatt aaaggatccg tgcttacgat cggctacttg cgacttaaaa ccttttatat 180  
cgagtctcat aaactgcaat tacttgcat 209

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<212> DNA  
<213> Zea mays  
  
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<400> 12595

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caagatgaaa gcaatcgaag ctacaaaagc atggctgaag agacctgaag tgcttgaaaa 180  
ctgttccact gggcttcatt tccctcaga acatgtggag aaccctgagg agaaggtgat 240  
gccactcaag tcacttcctt tctatgccgc tgatgggtag aaagatagtt gatggcagct 300  
actggaggat gctgcagttg ttgatgtaaa taagctcgct tgacagttgt ggaacagtgt 360  
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aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaa 94

<210> 12597  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-006-Q1-K1-D1  
  
<400> 12597

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atgacttgca gctcaacagg aaatgtccat cattaacggc aattcgagac aagtacaagc 180  
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taagtagcgt ggtgaaagct attggtttga ggttctttag gattcgcgcc gctgtgtcac 420  
tcttagtgag accaggca 438

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-006-Q1-K1-D2  
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cagcattttt tgcaatctct atttttgagg tcaaatagata tctacctcca cataaatcca 180  
cattggcaga gacaaaaatg aaaataatag atcctagtac ctgtaagaga tccataactaa 240  
atactatgaa tacttagatg ttaaccatgt tactcgactg aactcgttgt aaggataaca 300  
aaaaaggggg ggccctttta aaggaccac tttta 335

<210> 12599  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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catcgcatgc gactcattgt ttaggaataa aacaagctaa taatgacttt tctctcatta 300  
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<210> 12600  
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 <212> DNA  
 <213> Zea mays  
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 aagcgcgccg gatggggagg atggcaagcc acaagagtgg cgagacagag acaccttcat 180  
 tgct 184

<210> 12602  
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cgatcgcgac cttccatggt gggccctctg aaaatatcgt ggactgggta tttggcctgg 360  
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g 421

<210> 12603  
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<212> DNA  
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<223> Clone ID: LIB3059-006-Q1-K1-G4  
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agggacactg catatatgat ggtgggttact gctcatgatg atagaagcag agactacact 180  
ctttcagacc ctaatgcgca gctgcaaget gctgcacagg cgccagttat aagttctccg 240  
ggagtggcat ggcgaaaccc tgcattagca ccagttgttc ctttctatgg aagcacgggg 300  
gcttaaactc ctgttggaac accgcttgct gggaacccta aaatgcaggc ccttggtttt 360  
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<210> 12604  
<211> 319  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gccgactcca tgcccatacg ctgctgccgg cgggtgtcccc cactgaagaa actatgtgct 180  
 gtagtatagc cgctggctag ctagctagtt gagtcattta ccgtcgacga ttgagtaata 240  
 atgtgtcacg catcaccatg agtggcagtg tcagtgtgag caatgacctg aatgaacaat 300  
 tgaacgacaa gaaaaagta 319

<210> 12605  
 <211> 469  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-A2  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-007-Q1-K1-B5  
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 agagcgggga gaagctgtcc aagggtgcagc tgaatggtaa agcttaggaa aggattgcga 180  
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 caccgtggt 249

<210> 12607  
 <211> 423  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-C10  
  
 <400> 12607  
  
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 acctcgccca aatctgtttc cactgctttg acggcgagaa cgtggagagt gctcctctcc 180  
 tatgaagaag gactacaaac tggctaattc tctatgctgg gaggaggaac cggatgccat 240  
 ggaggagaag gcgggagtc ttgatgagta agacgggctt ctggggtcga tttgcttctg 300  
 agttgtttat tttatatcgt cgcaatttcg tggttgtcgt ttggttattc tgtgaagcag 360  
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 <223> Clone ID: LIB3059-007-Q1-K1-D1  
  
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 ggcggggctg ctgtcgg 197

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 <223> Clone ID: LIB3059-007-Q1-K1-D7  
  
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gacaaaaaac tttattattg aactataact cataagaaat gtaaaagagg gcaccaccaa 120  
tgatggggtg ttggtagaac actgctaggt ttgtcaaagc aagttgtctg 170

<210> 12610

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E10

<400> 12610

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gtgtctgcac ctgggcgtgc agcgcttcct agtgccaccc cgaatctaaa cattgggatg 120  
gacatttggga atgcttctcc tgccttggct gtgcctgcag tgcaggggga agtgagtcct 180  
gggttggcac ttgcccgcgc tgatggcggt actcaactgg acgaacgtga aatgaagaga 240  
aggatcggcg ttaaaatggt attgtgaagg gagaggtttt taagcaaaat actgtaccgt 300  
cgttttgcca tcgagtatat ttgacctcg attatataga tcacattaaa tttttggagc 360  
atcaatttta t 371

<210> 12611

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E2

<400> 12611

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agaaagcaca atagtgtacc aacaatggca gccaaaatat tttgcctcct tatgtctcct 120  
ggcttttctg caagtgtgc taccgggacc attttccgc aatgtctaca tgcttctata 180  
gcttcccttt tttcccgta cctcttacca tctgtgtttt cggatatgtga ataccatat 240  
ttttaaccct atatgattca acaggcaatc tcaactgtct ttttatctag tttactattg 300  
tttttttaat attatcatt tttattacat tattttctct ttgttgcat tttttgtctt 360  
attttttct ttgttcatac atcttttttt tctttttttt tgttattctt ttttaatttt 420

cttatttttta tattttttatt tttctaatta atttt 455

<210> 12612  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E6

<400> 12612

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ccatcaatca tcattcatct tagtagtata ggcaccaaat caaatctgca tcatcaatta 120  
tctaactcca aaaacatga agctgggtgct tgtgggttctt gctttcattg ctttagtatt 180  
aagtgtttat tgtacacaga caggccgttg tctctgtggt caacaacaat atcttgagca 240  
gtaacatttt ttatatctta catctattcc 270

<210> 12613  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-E8

<400> 12613

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acaaaaagtg gcttcaacaa caggatgctg ctgaaacaaa taatgttatt caaaggctga 180  
agtttgggtca ccgggagcaa aaagaatcag catatgaaga tgaagatgaa gacgaagacg 240  
aagatgaaga tgaagatgaa gatgtagctg attgtgagga aggatcacao aatgaagatt 300  
taactccagc aaatattgtg cgacaaaatt cagagaaggc aaaacagatg attgcaaaga 360  
tgtttgaaga tgacaatgat acttatgagc actcggatga tgaggaaata gaagagcatt 420  
tggctcgtca ggcgatt 437

<210> 12614  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-F3

<400> 12614

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attcacaatg gcgaccaaag tatttttccc tccgtatgct ccttgctcta tctgcatgtg 120  
ttgcttacgc gacaatttat acacaatgct tacaagctcc tatatctttc ctttattatc 180  
tcataccttg catcaatgat agcttcagta tgtgaaaacc catctcttca accctatagg 240  
ctccaacaag caatcgcagc atgcaacata cctttatcaa ccttgtttca acaatcgtca 300  
gtcctatctt aggtgcattc att 323

<210> 12615

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G3

<400> 12615

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gtcgttccaa atccatgcat gctcgtctgc tcatttccgc agcgatgtaa cacggatgtc 120  
caagatcaag atcgggatca atgggctcgg caggatcgga cggctgatgg ccagggcgac 180  
cctgcatagt gacaacttca cgctcgtaag cgggcaagac tgcttaatca gcacagaata 240  
catgtcctac atgaccaagt acgacactgt gcacggactg tggacgcact ctgcaaccaa 300  
tgccaagtga ctgcaaaaact cctgttcggt tagcgagaag gatgttgccct gtgttagtc 359

<210> 12616

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-007-Q1-K1-G4

<400> 12616

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agggaggggtc ggcgcatgag atctggacga cagaaccttc gaggcgtctg cagagcctga 120

<210> 12617



<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-007-Q1-K1-H12  
  
 <400> 12617  
  
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 caacttgata tggggcttca atgaagcatc taatctatgc tatgagaaga atcgacgtaa 120  
 aaagaataag aagaatcaac acaatgagtc catggagcca ataccatttt ggggtggaagc 180  
 cggaatcatc atgactaaga acctatactg ccagggcgcc agaaaccctt ggtggcaaga 240  
 agaaattgat gtttgacaat tgtagtcttg taatgcaaag acctgagaac aggggtccatc 300  
 tttcttatca tgtctatagt gtcttgacgc acaaaccatc taccaggtct aagtattctg 360  
 tcaatttcag ctgcaacttc aatgatgtgg caccttttcg taaggggccc taagagataa 420  
 ctcatgtga 429

<210> 12618  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-008-Q1-K1-A11  
  
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 cagaaggaga gcaccctcca cctggtgctc cgtctcaggg gtggtatgca gatctttgtg 180  
 aagacactca ctggcaagac aatcaccctt gaggtggagt cttcggatac cattgacaat 240  
 gtcaaggcca agatccagga caaggagggc atcccacccg accagcagcg cctcatcttc 300  
 gccggcaagc agctggagga tggccgcacc ctggcggatt acaacatcca gaatgagagc 360  
 actcttcacc ttgtgcttcg tcttaagggg tggcatgcat atttttgtga agactttgac 420  
 tggcaagacc attacctt 438

<210> 12619  
 <211> 332  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-A4

<400> 12619

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tgctgctacg acgaccatTTt tcccgcatTTg ctcacaagct cctatagctt ctcttctttc 180

cccatacctt tcaccagcgt tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240

gatccaatat gcaatcacag caggcatctt aattttatca cccttgTTTT ttcaacaatc 300

attagtgcta attacataat tacctttggT gc 332

<210> 12620

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B1

<400> 12620

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gagtggcctt aatggcattc atgttgaact ccaggccaca gatgctagtg aaatcagcct 120

cgatgagatc aaggatcggg cacgctaggc gcaccgtcat cgcgagtttc atggtcacgc 180

atcatggact cgctactac tgtggatttg tacgccatta tagacttggt gctgcgaaag 240

actgctttgg tgatttgtgg gtatgatgct gtgtaaaaa 279

<210> 12621

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-B6

<400> 12621

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atttgaggag catgctgaga aggcaaagac cttgcctgag aacacgagca atgagaacaa 120

gctgaccta tacgggctct acaagcaagc cacggttggg gatgtgaata ccgatcgTcc 180

gggcatattc taccaaaagg acagggccaa ttgggatgcc tggaaggctg ttgaatgcaa 240  
atcgaaggat gattcgatga atgactacat caccaagggtg aagcagctcc aggaggaggc 300  
tgccgccttt taaaagtctt gtaatagtgt tgccaaacag ctatttgtca gatgagcttt 360  
gtgccatttc cttaataggt gtatatcatt cgatccattg gggatctgtg aaccatgtac 420  
ctgtttatgt 430

<210> 12622  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-C8

<400> 12622

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cgaggtagga gaatgtctac atggccatgc tggcatattt gtccgaaagg tatgaataga 180  
tggttgagta tatggagaat gtgtctaata ctgtatatgt ggaagtgtc actgttgagg 240  
agcgtaact 249

<210> 12623  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D10

<400> 12623

ggccggaatc ccgggtcgac ccagcgttcg ggaacgtggg ctcgcatatc atggacaacc 60  
tg 62

<210> 12624  
<211> 264  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-D2

<400> 12624

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 aggttactgt aagtgggtcc tacaacgatg ctgaagctgc taaaattgct cggttcagtat 180  
 catcttcttt tttggttaaa gccgctatat ttggaagaga cccaaattgg ggacgaattg 240  
 cttgctcagt tggttattca ggca 264

<210> 12625  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-008-Q1-K1-D4  
 <400> 12625

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 acccgcaaga atcaggggca gtcaaccaac tggcatcatt gaactctccg gcttatgtac 120  
 agcagcaaca actactacca ttcaggcagc taagtgggtg gagccctgct gccttcttga 180  
 cacatcaaca gttattgccg tgctaccggc acgctgcgcc taacgctggc accctcttac 240  
 aactgcaaca atttctgcc a ttcaaccaac ttgctttgac aaaccagca gcgtgggacc 300  
 gacaacccat gagtgggtgg gccctcagat agagatctta tgagttata 349

<210> 12626  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-008-Q1-K1-E12  
 <400> 12626

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 taccttcatt gttgcaaaat ttgatggcat tcttgggcta ggctttcaag aaatctctgt 180  
 tgggaatgca acaccagtgt ggtataacat ggtgaaacaa ggtctcatca gcgaccctgt 240  
 tttctctttc tggtttaacc gacatgctga tgaaggagaa ggtgggtgaaa ttgtgtttgg 300  
 tggaatggat tctagccact acaagggtga tcacacgttt gtcccagtc ctcgttaagg 360

gatactggca atttaacatg ggtgatgtcc tggttgatgg aaagcccact tgtttt 416

<210> 12627

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F10

<400> 12627

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cctttctcct actgaatgaa tgaatcatta ttggctttgc ttgcttcaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 180

aatacaacac taataaaata cgacataaaa acaacaaca 219

<210> 12628

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F5

<400> 12628

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ccaaaccag cgagcgaact ggaccccgcg agctattggc agcaccctat actagcacca 120

ctgagccagc tagctacagc aggcccagcg aaccagggga cacagcaaca gcggccgcgc 180

gagctaccag caacaggcag cgaacctcgc agaccctctc acaactgcaa caatggggcga 240

ccatagacca a 251

<210> 12629

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-008-Q1-K1-F9

<400> 12629

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gtgatatct 69

<210> 12630  
 <211> 172  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-A5  
  
 <400> 12630  
  
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 atgcaccaaaa tcaaatgtac ggggtcaatt atctaactgc aaaaaccatg aagctgggtgc 120  
 atgtggttct tgcttatatt gctttagaat caagtgtatc tagtacacat ac 172

<210> 12631  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-A7  
  
 <400> 12631  
  
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 ggctagtgtt tgctgttaac atcatagcgg cctgtatgtt caaataatgg agcgagtatt 180  
 tctgatgagt ttgagttgtc gggggctgtg gaactttcaa acatggcgat acgttataat 240  
 gtcgttttgc tagatgctat gctttcatcg tggcttgga atcggggtct tgtcaagttt 300  
 cagctcacag acggatctgt aaatggtact gaaccctaca tcttatgttt tctgttaaaa 360  
 aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atataaaaaa tatt 414

<210> 12632  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-B1  
  
 <400> 12632  
  
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tatcttagcc atcattgtct cttttcctaa ggttacagac gtctaagaca gtcacgaat 180  
catcaaagta tgagaccctc actacagata agctttttca gcgagttcaa gttcatagaa 240  
attaatcact agacttgga accctagtgc atccaccata agccttgtct taagaggtga 300  
tatctcttta gcttggcact tgttgtcagt cgtttttgca gcttcacaac aatgatatga 360  
atcggcggtg tggcacgaac aaggacgcct gcttttacta tacagaccct gactatttca 420  
tcgccaacta tttcaagatg aagggaagt c 451

<210> 12633

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B11

<400> 12633

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gaggaactct ttgctgacgc tggcatactt gcaattgagc atgctgactt tgagggcatt 180  
gaacgtctgg ctcttggtac tgggtggtgag atcgcatcaa cttttgataa tccagattct 240  
gttaagcttg gtcactgcaa ggtaattgaa gagattatga ttggggagga caggttaatt 300  
catttctctg gggtcgcgat ggggcaggct tgcaccattg tcctaagggg ggctagttag 360  
catgtgcttg atgaggcaga gagatccttg catgatgcct tgtgtgtgct gtcccagaca 420  
gtaaatgata cccg 434

<210> 12634

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B12

<400> 12634

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tcgtcgtcta gcagcagcca ccgcgcctc atcctcgag ccgcgcctc gctctccgtg 120  
ctcgcggtg ccagcgccag cgccgggacc tcctgcgtgc cgggggtgggc catcccgac 180

aacccgctcc cgagctgccg ctggtacgtg accagccgga cctgcggcat cgggccgcgc 240  
ctcccgtggc cggagctgaa gaggagatgc tgccgggagc tggcggacat cccggcgtag 300  
tgccggtgca cggcgtgag catcctcatg gacggcgca tcccgccggg cccggacgcg 360  
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<210> 12635

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B2

<400> 12635

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cgcttcttgc gctttttgcg agcgcaaca atgcgttcat tattccacaa tgctcacttg 120  
ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttccaacacc 180  
cagctgtgca agcctatagg ctacaacaag caattgcggc gagcgtctta caacaaccaa 240  
tttcccagtt gcaacaacaa tccttggcac atctaacaat acaaaccatc gcaacgcaac 300  
agcaacaaca attcctacca gcaactgagc acctagccat ggtgaaccct gccgcctact 360  
tgcaacagca gttgcttgca tcaaaccac ttgctctggc aaacgtagtt gcaaaccagc 420  
cacaacaaca gctgcaacag tttctgccag c 451

<210> 12636

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B4

<400> 12636

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cattagcaac agcctagcaa caatggctac caagatatta tccctacttg cagcttcttg 120  
cgctttttgc gagcgcaaca aatgcgttca ttattccaca atgctcactt gctccaagtt 180  
ccattattac acagttacta ccaccagtta cttcaatggg ctacgaacac ccacctgtgc 240  
aagcctatag gctacaacaa gcaattgatg agagcgtctt accacaacct attttccaga 300



tgcaacaaca acacttggca catgtaacat taaaaacat ctcaacgcat cagtatcaac 360  
aatcctacc agcactgtac cacctagcca tgggtgaaacc tgatgcctac ttgcaacaac 420  
agttgcttgc attaaaccca cttgctctgg caa 453

<210> 12637

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-B5

<400> 12637

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aaatatcgcg ctgctttctt tttattgggg ttcgttttta agctttgttt ttggccgtga 120  
aataaaaaata gttgctgtac taagaaaaaa gagcaatctc atttatggat atgaaatttt 180  
acctgaagcc attaaaaaaa aagggcgggc gttctaaagg gtcccagctt tactacgcct 240  
tccttcgacc gtatagcctt tttttagggg cacctaaatt taatt 285

<210> 12638

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C11

<400> 12638

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taataaagaa aatagaaaat ttagaaaaaa gaaaaaaaaa actaaaaaaaa taaaaataaa 120  
aaaataggaa ataaaagaaa aaatcaaaag aagaaaaatt taaagtcaag caaaaagaat 180  
acagaaaaag aaataaaaaa atgaaaaata aaagaaaaga gattgataaa aaataaaaaa 240  
aagaaaaaaa gatagataaa aagatataaa gataacaaat aaagtaacaa ttcataagga 300  
atttaaaaaa taaaaataat aaagaaaaat ataataaaca agtaataaaa gaaaaaaaaa 360  
aaaggaaaat gtgaaatata aacaagaaaa aataagaaaa aaataaaatc aataaaaaaa 420  
aggaaaaaat aataataaa 439

<210> 12639  
<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-C3

<400> 12639

gtaatcataa agcagccctg atcggtttg actcgatgaa tcacttcttg attgaataag 60  
cgaagaacgc cagtaagaat tacagccaat aatctgtaca catgatcttc aattcagggg 120  
gaaactgaac tgatcgaaaa gatctgatgg attctgattt tgcgtgcttg tcttcctcga 180  
tcttgccagc gaagaggacc catcattatt gt 212

<210> 12640  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D11

<400> 12640

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ctcgtgagggc tgagcggaat tactgcagag ggccaagggtg tgaaggttga atcgtcagca 180  
gttccttcag cccaactcc agatgttgct gaagcacagg cccagttgc tgaggaggac 240  
gacgacgatg atgttgacct ttttggtgag gagaccgaag atgagaagaa ggctgctgaa 300  
gagcgtgctg cagctgccaa ggcttctggc aagaagaaag aatctgggaa gtcacagtt 360  
ttacttgatg tgaagccatg ggacgatgag actgacatgg ccaagctcga ggaagctgtt 420  
aggagtgt 428

<210> 12641  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-D3

<400> 12641

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tc

62

<210> 12642  
<211> 382  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-009-Q1-K1-D9  
  
<400> 12642

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ggacgaccgc gtgagcgcgc cggaggcggtt ggtcgacgcg ggccaccgcg gtcggtacaa 120  
gccgttcaac tacgacgact accggagggt cgggtgttcc accggcgagc gcgcaggcga 180  
ggcgctcgcg cggatggcgg cgtgacgtcg tcacgcacgt gcaagccgtt aattataggc 240  
tcgcgcacgc atacgcctac acgtacgaga ggttgtctcg ttaagccgtt ctattaaaat 300  
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aaaatcttgc aacacttgca ac 382

<210> 12643  
<211> 442  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-009-Q1-K1-E5  
  
<400> 12643

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cactggcacc gcgaggagcg ctcccacggc aggttctggc gccagttccg cctccccgag 120  
aacgccgacc tcgactccgt cggcgccagc ctcgacaacg gcgtcctcac cgtgcgggttc 180  
cggaagctgg cccccgagca ggtcaagggt cgcgcgctcg ttgggattgc cgggggagac 240  
ggtgacggcg acgcgaagaa gagtattggc ggcggcgccg gggatgggtc tcatcagacc 300  
aagaagggtg agctctgaac agtcaaacga ggggtgttcg cgtttttttt tttttttggg 360  
tatgttcttt atgttccacg acgtatccgg tatctccacc tgtattgtat ggagaggcag 420  
agaaagtgtg ccatcttgac tg 442

<210> 12644  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-009-Q1-K1-E8  
  
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 agcgcctgtct gcggttgctg cggccgtaga gaggctacag gcagcggcgc aggacgcgcg 180  
 caagtccctcg tcgcgctcgg ccggcgccctt ctccgagcag gcgcagcagg ccctcgtgtc 240  
 caggaccgcc ggggttcaca ctcaagaaaa ggctgcgcag atgggctgct agactgctga 300  
 agagaattaa ggacgacgac tattgactaa tgcgatcttt tctcattgt ctttgaggtt 360  
 tgttcagaaa tcagaactat ggctactacg tacctcagca tcttgtgtag ccaactgttt 420  
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<210> 12645  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-009-Q1-K1-F12  
  
 <400> 12645  
  
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 tgtaccggcc acaacttccg gggtttctta agaacattgg tggatcttct gatcaatggg 120  
 ataaccaat tcttgatcaa cttgagaact ttgaacctaa caatccaaaa atgccgcagc 180  
 aatttgcgca aagtggcatg acttccgagg aagtggatc gaaaataatg gcaaaccag 240  
 atgtagctgt cgcattccag aatccaaaaa tacagacagc catcatggac tgctcgcaaa 300  
 accctcttaa cattgtaaag taccaaaacg acaaggaagt catggatgtt ttcataaga 360  
 tatcacagat cttnccccaa atcaacggct agctggctct c 401

<210> 12646  
 <211> 414

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-F2  
 <400> 12646  
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 atctgcaagc taactgagga gaaaatgtct gctgttcagc agaaccagaa attacgccaa 180  
 gagctggagc ttctacggaa agagagcagc acaaccggcg gcggtttctc catcaccttc 240  
 ttgtttgtcg agggcctact gggcatcgtc gttggctaca tgcttaagag aacatagtgg 300  
 aacggtgtct ccagcagatc tctactactc ccattaaagg acacccaccc accccacagg 360  
 tggcgtggta tgcctctctc tcccatgtg ttttcgctcc taatcggagc gcc 414

<210> 12647  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tcagcaacag cagtttcttc cattcaacca actagctgca ttgaactctg ctgcttattt 120  
 gcaacaacaa ctaccattca gccagctagc tgctgcctac cccaacaat ttcttccatt 180  
 caaccaactg gcatcattga actctcctgc ttatttacag cagcaacaac tactaccatt 240  
 cagccagcta gctgggtgtga gccctgctgc cttcttgaca caacaacagt tattgccgtt 300  
 ctacctgcac gctgcgccta acgctggcac cctcttaciaa ctgcaacaat tgctgccatt 360  
 taaccaactt gctttgacaa acccagcagc gttctaccaa caaccatca ttgggtggtgc 420  
 cctctt 426

<210> 12648  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-F6

<400> 12648

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ggcgtccgag cagggagtcg tgatcgctg ccacagcaag gctgagtttg acgcccacat 120  
gaccaaggcc caggaagccg gcaagctggt ggtcattgac ttcactgccg cctggtgcgg 180  
tccatgccgc gccatcgccc cactgttcgt cgaacacgcc aagaagttca ctcaggtcgt 240  
gttcctgaag gtggacgtgg acgaagtga ggaagtcacc gcggcctacg aggtcgaggc 300  
gatgccgacc ttccacttcg tcaagaacgg caagacggtc gcgaccatcg tgggtgccag 360  
gaaggacgag ctctggccc agatcgagaa gcatgctgcg cctgcgcctg cgtctgcgtc 420  
tgcctaaagg agatcagatc aatcg 445

<210> 12649

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-G10

<400> 12649

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caacaaccta acaacaatgg ctaccaagat attattcctc cttgcgcttc ttgcgctttt 120  
tgcgagcgca acaaatgcgt ncattattcc acaatgctca cttgctccta gttccattat 180  
tccacagttc ctcccaccag ttacttcaat ggccttcgaa caccagctg tgcaagccta 240  
taggctacaa caagcgattg cagcgaacgt cttacaacaa ccaattgccc aattgcaaca 300  
aca 303

<210> 12650

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G11

<400> 12650

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gaggagacga ccccatctc aaggtcgagg tcgagggtc ctctctctct accatctccg 120  
 ttcgatccca tcgccccgcc gccgccatgg cgtttctcgc gcgggcgctg cggcagtcca 180  
 actggcgccct gtcgtcgcgc tgccccgccg tggccgcctc ctgccgttgg atctccccga 240  
 ccgccgccgc gggatcgccg gaggccggcg cggcgggtgg gtctgccgac ccggagctgc 300  
 ctccgccgcg ggagcccgtt ggccggcgccc gcgtggagct tctctctaac ccggaggacg 360  
 cgctcgaggt attcgtggat ggccatgcgg tcgggatccc caaggtgttc accgtgctcc 420  
 aggcctgcga ggtcgccggc gtcgacatcc cgc 453

<210> 12651

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-009-Q1-K1-G2

<400> 12651

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 gtcctatag ctctccttct tccccgtac ctctcaccag tggtgtcttc agtatgtgaa 180  
 aaccaattc ttcaacccta caggatccaa catgcaattg catcaggcat cttaccttta 240  
 tcacccttgc tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
 ttggcacaaa acatcagggc acaacaactc gtgctagcaa accttgctgc ctactctcag 360  
 caacaacagt tacctttggt gcatttggtg gcacaaaaca tcagggcaca acaactacaa 420  
 caactcgtgc tag 433

<210> 12652

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-009-Q1-K1-G9

<400> 12652

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atgctccttg gtctttctgc aagtgttgct accgcaacca ttttcccaca atgctcacia 120  
 gctcctatag ctcccttctt tccccatac ctctcaccag cgggtgtcttc aatgtgtgaa 180  
 aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
 tcacccttgt tcctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300  
 gtggcacana acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360  
 tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
 tat 423

<210> 12653  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-H10  
 <400> 12653

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 ctcgcaagat gaaggacacc gactctgagg aagagctcaa ggaggccttc cgtgtgtttg 120  
 acaaggacca gaacggcttc atctcggccg ccgagctccg ccatgtcatg acaaatcttg 180  
 gtgagaagct aactgatgag gaggtggacg agatgatccg tgaggctgat gtcgatggtg 240  
 atggccagat caactacgag gagtttgtca aggtcatgat ggccaagtga gccacagaac 300  
 cataatctga aggcagagaa gattatgcat tgcattattag tcaagatgca actttttatt 360  
 ccatcgactt ctagtgaac attctgctag ttgtagttgc tgaaaaaggc aatgtagttc 420  
 ctgctttggt ct 432

<210> 12654  
 <211> 245  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-009-Q1-K1-H3  
 <400> 12654

aagaagttat atttccaaat tctaattgtc taaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata taaaaaataa 120



aaaaaaaaa aaaaaaaaaa agcaaaaaaa aaaatataaa aatagtata actaaaaaaa 180  
ataaaatagg gcggcgattt acaattttat gactgggaaa tctttataat aaccaaacta 240  
aattg 245

<210> 12655  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A11

<400> 12655

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gagtctgtgc tgcggaagcg caagcgggag gagcaatggg caacggacaa gaaggagaag 120  
gcgctcgcgg acaggaagaa tgcgctcgag agccgcaaga tcatcttcgc ccgcgccaag 180  
cagtacgccg aggagtacca cgcccaggag aaggagcttg tgcagctcaa gcgtgaggcc 240  
cggttgaagg gtgggttcta tgtgagccca gaggccaagc ttctgtttga ggttcgcctc 300  
cgtggtatca atgccatgca cccaagacc cgcaagatct tgcagctcct gcgattgagg 360  
cagatcttca acggtgtctt actcaaggtt aacaaggcaa ccattaacat gct 413

<210> 12656  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-A12

<400> 12656

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tgaatgacgg gctcgcgaac ctcaacatca gccagggcac cgtcctgacg cccccggcgg 120  
tgcaggccgt ctgcgactcc ttcccggcgc tgcacacctg ccccgacagg cactccctga 180  
tcatcagtgg ctgcctcagc ctacgtgag cccactgcgc ctgcgcccac caccacacc 240  
gtgccaggag agccctgatg gccaaccatg cgtactaata aacatgttgg tggcagtgc 300  
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<210> 12657

<211> 223  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-A4  
  
 <400> 12657  
  
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 gatctaacgg atccaagttt cagtactgca tgcattgcaac gacataaata ttatatagag 180  
 taacctaaat gcaatccact gtccgtgatt caacaacata ttc 223

<210> 12658  
 <211> 137  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-A9  
  
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 gagatcgagc ggatcag 137

<210> 12659  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-C6  
  
 <400> 12659  
  
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 cagaggtcgg gccggtggcg gtggcggagg cgcggacgtg ccagtcgcag agccacaggt 120  
 tccggggccc ctgcctccgc cggccaact gcgccaacgt ctgcaggacc gaggggttcc 180  
 ccggcggcag gtgccgcggc ttccgccgcc gctgcttctg caccacgcac tgccactgat 240  
 tcgctcgccc agcggccggc tggcgtcgcc gtcgatcgcg cgcgtcgca ccagtccatg 300  
 gctccatgca tgaataaaa ggggtgtcgg tttgtgatgc caaattgtat cctctcgtcg 360

tgtgttgaag cgttcgatcg tcggcttagt agtgtgcctg tgagcagcgg cgtgctgttg 420  
tacgtacgtc 430

<210> 12660  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-D1

<400> 12660

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gcgatggtag ctgacgcgaa ggaagatggg attgagtaag tgagctatta aacttgttgc 120  
ttatagacag caatgcaact accatgattg atccagatag ctgatgtgag acctgtagcc 180  
tttttgacac aacaacagtt gaggccgtta tacctgtacg ctgcatctaa cgctgtcacc 240  
atattacaac tgcaacaatc gctgtcatta aaccaacttg ctttgacaaa cacaacaacg 300  
ttataccaac aaccatcat tggcgggtgcc ctattttaga ttgcttatga gttatagttc 360  
aataatgaag ttttttggaa gatgtttgtg gcttcccaga tataagaaag cacatttcta 420  
gattctataa ataattataa ttttttt 447

<210> 12661  
<211> 171  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E6

<400> 12661

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tagaaaggct acgagtaaatt gttgatactt tctaaacgaa ttaaactgtt tttaagctat 120  
tgggtgatct tggagtttct tggggaaaag agttcgagca cttttaataa t 171

<210> 12662  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-E9

<400> 12662

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acctgagcaa gatgaagacc aagatgatcc agatgaacga catgatcctg actctgatat 120

ggaagtggat gatcacaagg ctgtggaaga gtcacgagg aggagcattc taggtataaa 180

aatcaagaga gaatttggtg aaaatgcgac cagagtacag gatggtggca gagtcgcac 240

tgaacataga ggactggaac ccatggcaga agacatcggt tcctccaagc aagctcctgc 300

agatgccagt gcaatggcca tcgatgaacc aagcaatgtc aagaatgaac ctgagagctc 360

aactaaattg caaggccaag cagctgcgta ccacaagcca tagctgcgac catcaagagt 420

tgc 423

<210> 12663

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F3

<400> 12663

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ataaaaagcg aaacgaaa 78

<210> 12664

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-F7

<400> 12664

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tgtggccaac cagaaataaa aagttacatt tccaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaataaaaaa aaaagcacia aatataaaaa aagaagcctc 180

ctaaaataaa aactatggtc tctgctatta cagaataagc ctattctaca ttatgatggg 240

ccattataag tgcacattga tattata 267

<210> 12665

<211> 214  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-G5  
  
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 attcatgata tttgggaaat ctctctatc catctctctc tatctatata tgtaataatg 120  
 cagtaagacg acacacatta tcatgtgtgg tatgaccaat aatatatgca tggtcataat 180  
 aaagttttgg ttttaaaaaa gaaaatacac gatt 214

<210> 12666  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-G8  
  
 <400> 12666  
  
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 atcaccacag ccacggcgac atggagacat cgcccatggg cgtgtggctg agcgcgatgg 120  
 ggtgctcgct gctggtcagt atggcgctcc ttgtctgcct cgtcctcttg ccggtcatct 180  
 tctttaaggg gaaaccgtct aaggccatag tggattcgct tgcagtgttt ggggcaggag 240  
 ctatgcttgg agattcattt cttcatcagc tggcacatgc ttttgggtgga gggcattctc 300  
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<210> 12667  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-010-Q1-K1-G9  
  
 <400> 12667  
  
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 gtccagagtt gcgacattgt ggctttcaac aagatctaga gttcagtttc tgagtttggg 120  
 caacggcagc ggctcagctc gtcaagtttg tgctgggatg ccagtttatc ctttctagtc 180

tattacagaa acgttgttcg gagctgagtc tattataaac atcttggctc gagtttattg 240  
 ttgagtgggtg ccagtttttt tcaatatataa tttatcttaa aaacagcggc actgatgttt 300  
 ttttgtctaa agttaatgag tttgcaaaac aaatgct 337

<210> 12668  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H10

<400> 12668

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 tactcattta tcaactctatt cgagctcacc tttgctccgg tactcgaatg gcttctttct 180  
 ggtcttatgc aaagctgttc ttcaattgct ggtagtatt gccacagttc aatggagctg 240  
 cacatgtata tgagcatttt gtgaggccaa tgattgtaa tcagcaagtt gtaaaccatc 300  
 ggtatattcc aaagaaggat gaatcaagta gacctgatga tgtaatttca gctgcacaga 360  
 ggtacattga gcaaaatgga tcaaaagcgt ttgagaatct tgtaacaag ttaagagtt 420  
 cgaaccaag gcgctcaatt ct 442

<210> 12669  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-010-Q1-K1-H8

<400> 12669

gccggctgct gtcaagttcc atctgtttgc tatcgcagac atgtatggc gcgcaaggg 60  
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 ccaaagcatc acgaaccggc ccatccagag gctgggtcga aagggcagcg tgataagcat 180  
 ctccaggctc atctaccatg agacctacgg cgtgctcaag atctatatcg agaacgtcat 240  
 ccgagacgcc gtaaaactaca cggagcacgc cgggcgcaag accgtcacag ccatggacgt 300  
 cgactacgcg ctcaagcact atggtc 326

<210> 12670  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B1

<400> 12670

accacgcgt ccgcctcaca gcgtcgacag catcctctac ttcagcagaa agtactgaaa 60  
 gcaagagctg ggctgatctg ggcttgcggg gaggcagccc aactctgaag ttatgtttcc 120  
 ctagactgcc catgttccga ggattagcat cagcattcta gctacaaaca tttcagatat 180  
 ctttcttgta agggcaaaca ttatggcata cctagattca cttttcctgc ttgtaatttt 240  
 gatcttcatt ttgaagtaat aagtacttga gttaagggg 279

<210> 12671  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B12

<400> 12671

cggattccgg gtcgaccag cgccgcgcc gcgtccgaaa cacatggaaa atcgcatcca 60  
 tgtaccacca ttgaccgaca gtgtagggca atatcttatg catcctgatc cttctggatg 120  
 tgctggtacc tgaaccatac gccaacattg ctcataagct cttataactt cctatatattg 180  
 cccatacctc tcaatacctg tgattaaaga ctgttaaaac ctaataatac aaacctacac 240  
 gatccaacag gctataacaa gcagtatcat aactcaatta accttgatca tccaacaact 300  
 gtcaacaata ttacagcata tacctggggc acatatgggtg acacaccata tcaacgcaca 360  
 acatctacaa catcttgcta tcagaaacca tgctagctac totgagcaac attagttcct 420  
 accattaaaa c 431

<210> 12672  
 <211> 472  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B2

<400> 12672

aattcccggg tggaccacg cgtccgctga tgtcttatct gagtcgagcc tgtttgtcta 60

cccgatacaag atttgtatca agagctgtgt aagtacaaag cgtctgctcg ctattccgag 120

gacccctgaa cttgctgaag agtcctgtt gccactcgtc gcagttaaat actcccgtgg 180

aacgttcata ttcctgaag cacaaccttc cccacacaag aacttcgctg acgaggttgc 240

cttctgaat cgcttcttcg gtggcctcaa gtccgggtggc aatgcttatg tgattgggtga 300

ctctgcgaag cccgggcaga agtggcacgt ctactacgcc gctgagcacc ctgaggagcc 360

tgttggttact ctgagatgt gcatgactgg gctggacaag aagaaagctt ctgtcttctt 420

caagaccact gctgatgggt actcgtgtg cgccaaggag atgaccaagc tc 472

<210> 12673

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-B9

<400> 12673

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gcgagctggt gtgagccctg ctaccttctt gacacaacca caattgttgc cgttctacca 120

gcacgctgcg cctaacgctg gcaccctctt acaactgcaa caattgctgc cattcaacca 180

acttgctttg acaaacccaa cagcattcta ccaacaaccc atcattggtg gtgccctctt 240

ttagatttct tatgagttat agttcaataa taaagttttt tgtctgatgt ttgtggcttc 300

ccagaaataa gaaagtacat ttctagattc taa 333

<210> 12674

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C2

<400> 12674

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tttgcaggc acttctactc gcagctatca tcgagatctc ggagctggcg tccagttgca 120



caacggcgat gacctcgctt acagttttcg cgccaagaag gccgtcctgt tcaaaccaga 180  
 taatgggttc ctaggtctga accttaaagg ggcctactt accgataaag agttgaagcc 240  
 gacgaagaca actggatccg ttgaactggc atggaccata cttgacttga aacagggcca 300  
 agacgtaagg ctcaaagttg gttacgaatt gtgtgacaag gtgccttatt tccagctcag 360  
 agagaacggg tggacgctga atgcttatat ggatgggaaa tgggatgtta gatttgaaat 420  
 gtgaatccac ttgctcagta gtgttaccaa ttctacttgt ctgtactgca cttggaa 477

<210> 12675  
 <211> 475  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C3

<400> 12675

aattcccggg tcgacgccac gcgtccgccg acgcgtccgg tgaaaagatt ggtgcaacag 60  
 cccgtttctg gcgattttct gctggttctt atcgagacct tatagaggca ttacaaaaaa 120  
 aaccgcttac atctgtaaat aagacagtga atggcagttt tgttcgacca tccaatgctg 180  
 ggggcgatgt ttatcctgtg gaatcttacg agagctcagc taaccaagta cttgatgctc 240  
 actgggggtg tctggatgat gatgatgcaa ctggactttg ctgcataacc ctctccatcc 300  
 ttgtgaatga ttgtcctggg gttctcaaca ttgtaacagg agtctttgct cgcaggggct 360  
 acaatataca gagccttgct gttggctcag ctgagaagga aggcatttca cgtattacaa 420  
 cagttgttcc tggacttgtg gaatccattg ggaaattagt tcagcaactt tacaa 475

<210> 12676  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-C4

<400> 12676

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 catttgacct tgtggagtac gaggggaagg ttgttgatcc tggacagtcg aacaacgcct 120  
 acattttccc tggatttggc ctcggtcttg ttatctctgg agccatccgt gtccacgagg 180

acatgcttct tgcgcctcg gaagcactag ctgctcaagc cacacaggag aacttcgaca 240  
 agggatcaat cttcccgccc ttcaccaaca ttagaaagat ctctgcgcgc attgccgcag 300  
 ccgtggctgc aaaagcttat gaactcgggt tggcgacccg tctgccttcc ccaaaggacc 360  
 tggtgaaata tgcacagagc tgcattgaca ctctgtctta ccgtaactac cggtagtgtc 420  
 gctgggatca attctgcagt aataaaatat g 451

<210> 12677  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-011-Q1-K1-C7

<400> 12677  
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 ggttcgtgtt atccgggatg ctgataccat gaactttgct gacattgaga aagggataaa 120  
 caaccttgca aagaaagcaa ctgagggggc gctctcaatt gatgacatgg caggtggaac 180  
 attcaccatc tccaacggtg gtgtctatgg aagcctcctc agcacaccta tcatcaaccc 240  
 tccacagtgc tctattctgg ggatgcattc cattgtgcaa cgccctgtgg ttgtgaatgg 300  
 tgacatcctt gcgaggccaa tgatgtacct tgcgctgact tacgaccaca ggttgatcga 360  
 tggcagagag gctgtcttc 379

<210> 12678  
 <211> 105  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D1

<400> 12678  
 gagcgacaaa gctagctctc tccagggtat cggattctga tcaccatgcc gtccaccgt 60  
 aactccgggt ccctcgacca gaaccttgag ctcgccaagc aatgc 105

<210> 12679  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D5

<400> 12679

accggtccgg aattccccgc tcgacgccac gcgtccgcgc acggtccgc catacccac 60  
cttttgtgtg atggataaga ttatagatgg attggaacac ttcgcagcat ggcacatggc 120  
tagcctgcta gcgtgcggca cccacacaac acaacacact gctcgccaga agcgccccat 180  
gaggccaggg gaggacacga caccgccatc agccatcatc atcatctcat actcagagca 240  
tgccatggca cgcaactgac tgactgactc gaaacacaca catcgactcc gctatacttt 300  
attaagcttt ataattaact agcttctctc ggccggcctg cacggtggag cacctagctc 360  
actttccgca gttgcaagga tctcactgtc agttgcctcc atacttgac ccttcattc 419

<210> 12680

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-D9

<400> 12680

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taaaaaaaaa aaaaaaaaaa aaaaagaaaa agaaaaataa caatttatgg aaaacccaaa 120  
taaacaatca ctcttacttc catcttatta actctttttt attgccactt aatttcaatc 180  
tattgccctt tttttaacaa cattaataac ttataaaacc ctgacattac ccaatttaat 240  
cccttttaaa aacatccctt tttcctaatt tagcttacta ccaataaatc ccctttcggt 300  
ccctttcctt aaaatttact caccctaatt tacaattggg aactccctt taccctccct 360  
ttaccacct taatctcctt gctttaacat ccccttttac ccatactttt taaatcccat 420  
tagtccctta cccttttcct tttccaacaa tttc 454

<210> 12681

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-011-Q1-K1-E1

<400> 12681

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acatgggtacc ctntgtact ntgatcaatt tgaaatcttg ccaaaccacc tctttcccaa 120  
atcataactaa tttactgcac ctcaactttc cctttcagaa accttcatac tttcacacca 180  
tatctatctt cacaatacat atcttattac catacatttt atcataacat taattgaact 240  
atttccaata ctcttgttct tttcacatac cataattcct agtcaattga atttaccact 300  
cttgcaatat tcattctgat cataatccct caaaaatttt tataaccacaa tacatttaaa 360  
ccttttaata cttataatca tatatttaat aaatcctatc aaattattaa atattacca 419

<210> 12682

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F10

<400> 12682

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tgtgcgccga cgactacgtg cagaagatga ccttcgacag ctacctctac aagcgcgctcg 120  
tgccggggcaa cccgctcgac gacatcaagc tcgccgtcaa caccatcggc agcctcgtea 180  
gggccaccgc actgcgccgg gagatggaga aggtcacctt gtgagccgcc gcccgcgacg 240  
tcattgccgt cgaaatgggtg tcgcagctga tcggccgggtg tattagtaga gatttgccgc 300  
tgatcggggtt aatttaggcc aacatgcgtg ggcagtgggc gcggagagga agagaaacaa 360  
gttgtgcaag tgcagcaagt agatcaaaag tgctgcctgt ttgtatcgat ggatcctgca 420  
acatatagca tat 433

<210> 12683

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-F7

<400> 12683

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tgtaccaaca atggcagcca aaataggttg cctccgtatg ctccttggtc tttctgcaag 120  
 tgctgctacg gcgaccattt tcccgaatg ctcacaagct cctatagctt cccttcttcc 180  
 cccgtacctc tcaccagtgt tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240  
 gatccaacat gcaattgcat caggcatctt acctttatca cccttggtcc tccaacaatc 300  
 atcagcccta ttacagcagt tacctttggt gcatttattg gcacaaaaca tcagggcaca 360  
 acaactcgtg ctagcaaacc ttgtgccta ctctcagcaa caacagttac ctttggtgca 420  
 tttgttgga caaaacatca gggcacaaca actacaaca ctcgtgctag caaacct 477

<210> 12684  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G1

<400> 12684

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 gcgacagtgt ggctttcaac aagatctaga gttcagtttc tgagattggg caacggcagc 120  
 ggctcagctc gtcaagtttg tgctgggatg ccagtttatc ccttctagtc tattacagaa 180  
 atgttggtcg gagctgagtc tattataaac atcttggctc gagtttattg ttgagtgggtg 240  
 ccagtttttt tcaatatata tttatcttaa aaacagcggg actgatgttt ttttgcctaa 300  
 agttaatgag tttgcaatgg ttctgagtct aaa 333

<210> 12685  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G12

<400> 12685

ccggattccg ggtcgactca cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg 60  
 tccgcccacg cgtccggcac aatagggtac cgacaatggc agccaaaata ttttgctctc 120  
 ttatgctcct tggcttttct gcaagtgtg ctaccgcgac cattttcccg caatgctcac 180  
 aagctcctat agcttcctt cttccccctg acctctcacc agcgggtgtct tcggtatgtg 240

aaaacccaat tcttcaacc tataggatcc aacaggcaat cgcagctggc atcttacctt 300  
tateaccett gtctctccaa caatcatcag ccttattaca gcagttacct ttgggtgcatt 360  
tattggcaca aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg 420  
cctactctca gcaacagcag tttctttcat 450

<210> 12686  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-011-Q1-K1-G6

<400> 12686

cccacgcgtc cgccacgcg tccgtgtact ttgatgaaga gaggaagca tgttttgcca 60  
caactgatgg attgtttgtt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa agatcaaagt 180  
ttaaatacag atgcatgcaa tgtaataact tttaaaaagt gtacctaat ttaatta 237

<210> 12687  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A12

<400> 12687

accggtttcg gaattcccgg gtcgagccac gcgtccgtgt tctccaaca accgtcagcc 60  
ctattacagc agttaccttt ggtgcatttg ttgggacaaa acatcaaggc acaacaacta 120  
caacaacttg tgctaggaaa ccttgctgcc tactctcagc aacagcagtt tcttccattc 180  
aaccaactgg ctgcattgaa ctctgctgct tatttgcaac aacaactacc attcagtcag 240  
ctagctgctg cctacccccca gcaatttctt ccattcaacc aactggcagc attgaactct 300  
gctgcttatt tacaacagca acagctacca ccattcagcc agctagctga tgtgagccct 360  
gttgcttctt tgacacaaca acagttgttg ccgtttctacc tgcacgctgc gcctaacgct 420  
ggcaccctct tacaactgca ac 442

<210> 12688

<211> 171  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-A2  
  
 <400> 12688

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 cgcccacgcg tccgaaagct agctctcggc ananatggga ttctgatcac catgccgtcc 120  
 accgtgaact ccggtccct cgaccagaac cttgagctcg ccaagcaatg c 171

<210> 12689  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-A6  
  
 <400> 12689

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 gaggtggttag tggtagggta tgcangagtg ctctgcccac ggagaaggcg gggcaacaac 120  
 gccatgttat cggcggcggc ggcaagaagg cgcccgcgt ggggctgcag aagcagaact 180  
 cgtggtcgcc ggacatcgag cgcgacgagg cgtgggagcg ccggctcagg ggcattgcgc 240  
 gcggggggcac 250

<210> 12690  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-A8  
  
 <400> 12690

ttaattcccg ggtcgaccca ctgcacgtt gtttttttat ttttttaata ttttttttta 60  
 tttttatatt tttttttatt ttttaagttt ttttaatat tttgtaaatt tttatttttt 120  
 tttttatatt taattttatt ttattttttt gtttaatttt ttaaattttt ttttcattaa 180  
 aaaaaaaaaa ataaaaaaaa ttatactata aattaaaaaa aatttaaaaa aaaaatataa 240

<210> 12691  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-A9

<400> 12691

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 aagatgataa cctcaaaaag ctccgatggc gaggagtctg aggtggaaga ggcggtggcg 180  
 atggagtgcg agaccatccg ccacatgac gaggatgact gcgccgacaa cggtatccct 240  
 ctctctaacg tcaactccaa gatcctatcc aaggtaatcg agtactgcaa caagcacgta 300  
 catgccgccg ccgccgccg cgcgcctcg aaggccggtt ccgacgacgt ggggtgccgcc 360  
 tccgccaaca gcaccgccg ctccggtgag gacctcaaga actgggatgc ggacttcgtc 420

<210> 12692  
 <211> 136  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-B1

<400> 12692

gtcagtgtga gcaatgacac tgccacccat ggtgatgcgt gacacattag gactcaagga 60  
 tcaccatggg tggcagtgtc agtgtgagca atgacctgaa tgaacaattg aatgaaaag 120  
 aaaaaagtat tgttcc 136

<210> 12693  
 <211> 258  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-C11

<400> 12693

gaaattttct gttgtagctt aaaagatgat tgtatagtaa cacggtacta tgagatgtgt 60



atttatattgc tatgaaaacc ttgtcaaggt cctgtatttc caactaaatt tatacctggt 120  
 tgaaaatttt tgagcagacc ctaaaaaaaa aaataaaaaa aaaaataaaa aaaaaaaaaa 180  
 attaaataaa aaaaagggcc ggccgtttta aaggatcaaa gttaacgtac ccttccttcc 240  
 aacgtaatac ttttttaa 258

<210> 12694  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-C3  
 <400> 12694

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 tttccctcct tatgtcctt gctctttctg catgtgttgc taacgcgaca attttccttc 120  
 aatgctcaca agctcctata gcttcccttc ttccccata ccttccatca atgatagctt 180  
 cagtatgtga aaaccagct cttcagccct ataggctcca acaagcaatc gcagcaagca 240  
 acataccttt atcaccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac 300  
 tggtaaaac catcagggca cagcagctgc agcaactcgt gctacctgtg atcaaccaag 360  
 tagctctggc aaacctttct cctactctc agcaacaaca atgtcttcca ttcaaccaac 420

<210> 12695  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-012-Q1-K1-C8  
 <400> 12695

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 tttggcggct ggcctact acgccgggta gaggcattgt agcgcctatg accatccgct 120  
 ccggcaacag tgctgccagc agcagatgag gatgatggac gtgcagtccg tcgcgcagca 180  
 gctgcagatg atgatgcaac ttgagcgtgc cgctgccgcc agcagcagcc tgtacgagcc 240  
 agctctgatg cagcagcagc agcagctgtt ggcagctcag ggtctcaacc ccatggccat 300  
 gatgatggcc cataacatgc cggccatggg tggactctac catgaccagc tgc 353

<210> 12696  
<211> 217  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D1

<400> 12696

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gtgggtgccct ctttttagatt tcttatgagt tatagttcaa taataaagtt ttttgtctga 180  
tgtttgtggc ttcccagaat taagaaagta catttct 217

<210> 12697  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D3

<400> 12697

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acaacccatc atgggagggt gcatctttta gatgacatat gagatgtaat cgataatggt 120  
gccctcatc cggcattgtt ttcctagaaa taatcaatat attgattgac atttatctc 179

<210> 12698  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D5

<400> 12698

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tgcagacatt gaagcccagc caagcattgc gggatcatata gtgctgaaat ctttcttgca 120  
caagatctac aagaggcaga agtagggtgc tcttggataa acgagctcag gagtcgttac 180  
tccttcgcat gcttgacata accggacttc ctcacctggg tgctctagta tgatgtggag 240  
cgtctagtta aaaaaaatcg atgtagtatg aaacaacctg cttggtctaa ttttaaccag 300

gctattaagg caaagtgctg tatcggtttg gtggaccgta tgttgcagat aataaattag 360  
ttagtttgtc 370

<210> 12699  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D6

<400> 12699

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tgcggcaagg cagctctgag gggatctcag cggcgacggc gcggcgacag cgaccgccgg 120  
gctcgaggat tcgcacggag tgaacaaggc tgagcgtcgc ctcatccga cttccgatcc 180  
ccaacggaaa gcggagccag gaccgggagc tggagcagtt gtcttcccc ctcgtctccg 240  
tcaactggtc tttaattctc tctttacaca tatcttgta tttaattctc tcatcaccag 300  
cgtaagaaaa aaccatttga agctaaattt ttcaacaagc cacttgagaa ctaccattac 360  
atggctgtta tatttgggaa tcatcaagca actggactat ttgcaaatg caccagtgat 420  
cccctaggtt tcgacacatc tgaaagtgca tgtacatatg gtgtggg 467

<210> 12700  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-D8

<400> 12700

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cagggcgcca gcggcgtgcg atcccaagcc gctgggtggg tgcgatccgg cgttcatgga 180  
cggagcga aa cccggggcag catgctgctc caccctgcgt gcgcaggagg catgcttgtg 240  
cgtgtacgcc aaagacccca agtttgcaaa atacatcaac aacccaaca ccgtcaaaac 300  
ctttacctcg tgcggcatag ccatcccaaa atgctaagca agcgctctgc gtcgtcgctt 360  
cgcttgctct tgctcttgtg tgtaacatat ccagcttatg aataaattat gtggatc 417

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 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-E12  
  
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 gggcaaattt catatttaac tttgtagagg agaacgggtt ggaagtaatg actatcgaag 120  
 aaatacgctc tggaattgat acacgtggaa ctgaactcga gggaattgat cgtggtgttc 180  
 tcatgcgggc tctgcggcag ttggagcaaa agggaaaggc agctatcttc aaaggcacct 240  
 ctgctgatga cgaaggcgta aagttttcgg tgtaattatt ttgcgatcct taaactggca 300  
 gactaataat ctcgttcagc cgggtgccctt gaacatggca tgacacaccc atagcctcga 360  
 tcattcagtg ccctttgaaa atggcatgac acatccttgt aaaaagcagt agggctgac 420  
 acattcttcc cgagtgggat cc 442

<210> 12702  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 nngcctgcga tcgttcgtag ccctccgtca gcagtcgagc agcngatcag tgtcggctct 120  
 acnntgcgga aagtaccaag gatgagccct catcaagaat gccctgccta cattggcatc 180  
 ccccggaan gggatatttc ttgctgctga tgaagtcaa actggcacca tnntggcaag 240  
 cgccctttcc aaagcatcaa tgttcgagat acgnnttgag gagaa 285

<210> 12703  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-012-Q1-K1-E6

<400> 12703

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gttcaaacac ttacaccca aataaggaac ttcagtgaca ttaatttttg ctgcaccaa 120

gttacatgaa ctgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgaccgt 240

tttaaaggat ccaagtttac ttacccttgc ttgcaacttc aaattttttt tatagggaaa 300

cctaaattaa a 311

<210> 12704

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-012-Q1-K1-F12

<400> 12704

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tgctgccttc ttactgcagc aacaggtggt ggcattccat ctacaagttg tggcaaacat 120

tgctgctttc ttgcaacaac aacaattgct gccattttac ccacagggtg tgggaaacat 180

taacgccttc ttgcaacagc aacagttgct gccattctac ccacaggatg tggcaaacaa 240

tgctgccttc ttacaacaac aacaattgct gccatttagc caacttgctt tgacgaatcc 300

taccacctta ttgcagcagc ccaccattgg tgggtgccatc ttctagattt tttatgcttt 360

atactgtaat aataaagttc tcatactgat atgtgcaact tctcagtaat aaaagattag 420

agatctatat tntaagttc 439

<210> 12705

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-012-Q1-K1-F4

<400> 12705

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accacaggca atcgcaacgg gcatctgaca ttatcaccct tgttctcca acaaccgtca 120  
gccctattac agcagttacc tttgggtccat ttgggtggcac aaaacatcag ggcacaacaa 180  
ctacaacaac ttgtgctagc aaaccttgct gcatactctc agcaacatca gtttcttcca 240  
ttcaaccaac tggctgcatt gaactctgct gcttatttgc aacaacaatt accattcagc 300  
cagctagttag ctgcctaccc ccagcaatctt cttccattca accaactagc agcattgaac 360  
ttctgctgct tatttacagc agcaacaact actaccattc agccagctag ctgatgtgag 420  
ccctgctgcc ttcttgacac aacaacagtt gttgc 455

<210> 12706  
<211> 450  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-012-Q1-K1-G5  
<400> 12706

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acttccggtc ttccaaaatc cggagttgag aaccagcaga gcatgcctct tctttggcat 120  
gggtgcatct ggcgtgatac ctgttcttca caagctagta ctcttctggc accaaccgga 180  
ggcattgcac acgaccggat acgaaattct gatggggctc ttctacgggc tgggagcatt 240  
ggtatatgcy gcacgggtac ctgagcgctg gatgcctgng aagtttgaca tcgccgggca 300  
caaccaccag ctgtttcacg tcttggttgg tgcccagacc tacacacact accacgcagg 360  
gcttgtgtac ctcaagtga gagacctgca aggtctgta aaggtactgc atcgttgagg 420  
atgtggatag attgtagatt ccggaattc 450

<210> 12707  
<211> 385  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-012-Q1-K1-G6  
<400> 12707

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taatggcgtc gtcgtctagc atcagccacc ggggcctcat cctgcagcc gccgtcctgc 120

tctccgtgct cgcggtgcc agcgccagcg ccgggacctc ctgcgtgccg ggggtgggcca 180  
 tcccgcacaa cccgctcccg agctgccgct ggtacgtgac cagccggacc tgcagcatcg 240  
 ggccgcgcct cccgtggccg gagctgaaga ggagatgctg ccggaagctg gcggacatcc 300  
 cggcgctactg ccggtgcacg gtactgagca tctcatgga cagcgcgatc ccgcctggcc 360  
 cggacgcgca gctggagggc cgcct 385

<210> 12708  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-H4

<400> 12708  
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 tacaggatcc aacatgcaat tgcagcangc atcttacctt tatcacccctt gttcctccaa 120  
 caatcatcat ccctattaca gcagttacct ttggtgcatt tattggcaca aaacatcatg 180  
 gcacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacaaca ttaccttta 240  
 gtgcatttgt tgtcacataa catcagatct caacaactac aacaactttt tctagcaatc 300  
 ctttctaact ac 312

<210> 12709  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-012-Q1-K1-H7

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 tggaaaacca gactgatcgg caaaatactt caccagagca cactgatcag gcacgtgtca 180  
 gagaaatcga ggatggctgg tgtgatagta tcggttctgt gggagatata caagcaaac 240  
 ttctaaagag gcaggaagcg gcagctaaac gtgagcgagc catggcctat gctctagctc 300

atcagtagca agcaaattca agacaaccta cagcatttga acctgacaag aacaacttgg 360  
gctggaattg gctagagaga ttgattgctg ttcagccttg ggagaatcng ttccttggca 420  
cttacgggac agatgggatt tttgtagtta atg 453

<210> 12710  
<211> 191  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-A10  
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agctcgaagc aggcttacga attagaaaac gaagcaaacg aacttatccg catcaagaac 120  
tatctctatg gcaagctccc ggtgcacaca ggccattctg tcgaaaaaat ccatgagaac 180  
ctgtctaggg t 191

<210> 12711  
<211> 447  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-013-Q1-K1-A12  
<400> 12711

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gcgaactcgt gggaaaaaaaa aaaaaaaaaa aagaagaaat attaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaggac caccatttta aagaatccaa ttttaactttc ccttgcttac 240  
aacataaaac tttttttata tcatccccaa aattaaatta acttcccgtta ttttaaaaaa 300  
atactaattt gaaaaaccct gggataacca aattaaatca ctttgctaaa aatccccttt 360  
tcacaaattg gcgtattaca aaaaagcccc caaccaatcc cctttccaaa aaattgccaa 420  
ccttaaattg caaattgaac cccccct 447

<210> 12712  
<211> 296



<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A3

<400> 12712

gcgtccgccc acgcgtccgc ggacgcgtgg gcggacgcgt gggctggaat cccagagagt 60  
 tgtagcatga ggatcaaacc gtgtaacggg ttgatcctga tgctggaatc ccagagagtt 120  
 gtagcagtag ctggcccaaa tgcattgctgg gtgggtttat ctattgctga tgagttgttt 180  
 aagcaagatc cattcctgta ttgtactcca taagccactt ggggtgttgct ttgtattgtt 240  
 cactactgtg ttttttctat gtgtgggacc gcattctacag tactagttgc ttgtcg 296

<210> 12713  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A4

<400> 12713

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 tggcgccgag catggcgtag gtcgaccgag cgttctccat ctccgacgag gacgacctcg 120  
 tcggcggcgc catggggggc ccgcgcgggg cgcccgtaga ggagatcgcc ttcgcccgcg 180  
 cgctgctcgc ctccggggcg ctccgtacca tcggtggcct gctaattggc gtcaaccgag 240  
 tcggagggga ccgcgcgcac ggaattttct tcatgatgtt gggcattgta atgttcatcc 300  
 ctgggttcta ctacacaagg atcgctact atgcttacia aggttacaag ggcttctctt 360  
 tttcgaacat tccaccgatc tgaaggagtg tgctgctgcc tgctgggtat gaagtgggtg 420  
 ccctggttta agagtttgc gac 443

<210> 12714  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A6

<400> 12714

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gacgcgtggg cggacgcgtg ggcgggggcg tgttggtcgt catgtccatg gctgacgtcc 120  
cgctcggggtt cggcattgcg gcgaggtcgg cgcaggattg caggaaggcc gacaccaacg 180  
ccgtgggtcgt gctgcaccag tccgacgccg gggagtacct ccgcaaggag gaggagctca 240  
tgtgaggtga gcgcataggc ttggctgggt aggtcatatt catgagtga ttatggaaga 300  
ttgtgcctta ctgttggtg ttccaaggct tggggcatat atatatgtac tgaatgatta 360  
atcactgggtt atgagatgcg attattgctg ttgcc 395

<210> 12715  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-A7

<400> 12715

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aaacatatca tatatatgtt cacgttatgg ccggtctcca tagctcatat gtggggcaac 120  
tgagtacaca acatcaattg atatttggtc agctggatgt gttcttgctg agctgcttct 180  
tgccagcct ctcttcctg gtgaaagtgc tgtggatcag cttggtgaga taataaagg 240  
tcttggtacc ccaacgcgcg aggaatccg atgtatgaat ccaaactaca ccgagtttag 300  
atttctcag atcaaagctc acctatggca caagattttc cacaagcgga tgctccaga 360  
agctatagat ctcgcttcac gcttgctcca atattcacca aatctaagat gcactgctct 420  
tgaagcgtgt gcacatccat tcttt 445

<210> 12716  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B4

<400> 12716

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catcagcacc gactacatga cctagatggt tatagtacga cactgtacac ggacagtgga 120  
agcaccatga agtcaagggt aaggactcca aaacccttct ctttggtgag aaggaggttg 180

ctgtgttttg ctgcaggaac cctgaggaga tcccgtgggg ttcggttggt gctgaatatg 240  
 ttgttgagtc tactgttggt attacttacc tgtaataatc ctgcatctta ctttaaattc 300  
 tatcc 305

<210> 12717  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 12717

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 atggcggaca tcgcgttgct ggtggcggag cagttcgaga agacggcaag gcgaggcgcc 180  
 cccggcgggg acggcggcag cggcagcggg accggcggcg agacgaggaa cttcggggcc 240  
 gtggccaaag tgtggagctc gtgggtggag tccgcctccg ccgccgcgctc cggggtcaga 300  
 ttcaccgtcg cgggtgcagct ggagcccaag accgggctcg cgctggccgn cgccgacggc 360  
 ctcttcttcg cctagct 377

<210> 12718  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-013-Q1-K1-B6  
 <400> 12718

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 aaaaaaaaaa aaaaaaaaaa aaaagaaaga ttattataaa aatccaaact tacaaaacac 120  
 atacatacaa caaaataaac tcttctatat tttcacccta catacaattc actcccctcc 180  
 tttttacaac ttcattactt ttaaaaccct ctcatcctcc aacttaatct cctttcacca 240  
 cattccccct tctccaaatc cctaataccc aaaattcccc cacctatcgc cctttccaac 300  
 atttccccat tctaaatatc caataaaacc ccccctgtat cgcctcatta acctcttcca 360

ctattttaat tc

372

<210> 12719  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-B9

<400> 12719

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acaaaaccca tacctcacct cctatcacia tgcctttaca tgcgtgctta ttttgttcc 120  
tctcttttga gctaccatta catagttgca aactgcagaa cggcttttcg catgtgaaac 180  
ccgtttgaaa aaaataatcg gctttggata ggggtttggg gtccctccttt ccctgaaaga 240  
acgcacgcgc gtgctgctcg cggcgaagcc gtgcctgtcg ccttgccggtt gcctctagcg 300  
tcatgtgtaa cgcggctatg cccagtgaat taacgtttgg tccttgtgtt tg 352

<210> 12720  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-C11

<400> 12720

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catcttcttg ctagtcgcaa tgaatgtaac ctattttgca cccagtgtga gaccaaacca 180  
gctgctttct gtaactattg tcgttcaagt gatcattcca cccaccgtgt aatccagata 240  
aggcgttcat cgtaccatga cgttgtgagg gtgtccgaga ttgaggatat ccttgatgtc 300  
agcgatgtgc aaacttatgt aatcaatagt gcaaggattg tattcctgaa tgagcggcca 360  
caactgcgtg cttctagtgt cccattttgt taggcaccta cattatcaac acat 414

<210> 12721  
<211> 207  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-D10

<400> 12721

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aaaaaaaaaa aaaaaaaaaa aaaaaaaagt aaatctttat acatactacc aaacttacta 120  
acacatacat acaacttcat aactatttat ataacatcac ctaacttcat ttcactctcc 180  
aaactcttta caacttacct aacttaa 207

<210> 12722

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E10

<400> 12722

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ctacagacac tcgccacctt ctatgattcc cctcaccaca agatttgcta tccagcaaca 180  
gcttgctcca agcatgaggc ctgggggtcc tcatatgcc aactatcatg aaccggttgt 240  
ccaacagggc caacaggggc cacgcccacc tattacgcgt cgagcttgag cccagggaca 300  
gcaacctgcy ccatcat 317

<210> 12723

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-E6

<400> 12723

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acgccgatcg gttcatcagt taagctaagg cggtcgtcgt gatgcttccg acccctgctt 120  
tgcacgatgt ggattgtgga gtgtcagttg atgatgcac atgcatgcat gcgtacgtgg 180  
gatacttgag gccgatttat tatattgatg cgagccgatc accact 226

<210> 12724

<211> 280  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-E8  
  
 <400> 12724  
  
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 aaatccccta ccatcaaaaa caacaaaagg cttttacaaa aaaaatttc taccaacacc 180  
 ccggttccaa caagtttata ttttttttcc aacaatcatt taaataaggg gccgtctcaa 240  
 aaccgcccc aaccgcccac ccctttcttt tcaactccct 280

<210> 12725  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-F2  
  
 <400> 12725  
  
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 ggcggtgttc agcgggcagg tgggtggagg gccggcggag ctggtggcgg cgggcagccg 180  
 gacgccgtcg cccaagacga aggcgtcgca gcttgtgggg cgc 223

<210> 12726  
 <211> 244  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-013-Q1-K1-F6  
  
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 aaaaaccttc attccgaaa gagtacttaa aacataaccg cataaaaatt ctcatctctc 120  
 tcaactactc ccatactttc tcacctcca cccctatac aatacacatc ccctccctt 180  
 tcacgacatc tcataaactt ttactccatt atctcattac aaacccctt attagtcccc 240

taat

244

<210> 12727

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-F9

<400> 12727

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gtctaccaag atattagccc tccttgcgct tcttgccctt tttgtgagcg caacaaatgc 120  
gttcattatt ccacaatgct cacttgctcc tagtgccatt ataccacagt tcctccgacc 180  
agttacttca atgggcttcg aacacctagc tgtgcaagcc tacaggctac aacaagcgct 240  
tgcggcgagc gtcttacaac aaccaattaa ccaattgcaa caacaatcct tggcacatct 300  
aaccatacaa accatcgcaa cacaacagca acaacagttc ctaccagcac tgagccaact 360  
agatgtggtg aaccctgtcg cctacttgca acagcaggtg cttgcatcca acccacttgc 420  
tctggcaaac g 431

<210> 12728

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-013-Q1-K1-G3

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cggcgccatg ctgcagcgcg tcctgctcaa catgcgcgtg cacggacgga tcgccgtctg 180  
cgggctcatt tcgcagtaca acctggcgga cggggagaag gacgccgtgc gcaacctcgc 240  
cgccgtcatt tccaagcgcc tncgcctgca ggggttcatt gagcccgacc acaagcacct 300  
ntacccgcag tacgaggcgt tgggtgctgcc gtacatcagg gacggcacgc tcgctacgt 360  
cg 362

<210> 12729  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-G4

<400> 12729

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aggccccggcg atctcgtctg ctgcgtgctg cgaggagta accggagccg cgacaggatg 120  
cactcctttg ggcaccgcgc caacgcggtg gcaacgttcg cggtcaccat actggccgcg 180  
atctgcttcg ccgcctcctt ctccgacaac ttcaacaccc cgacacccac tgcctccgtt 240  
aagatcttga atctaaactg gttccagaag gaggccaacg gcaacgacga ggtagcatg 300  
acgctgaaca ttctggccga cctttcgtct cttttcacgt ggaacacaaa acaggtgttt 360  
gtttttgtgg cagcagagta tgagactcca cagaatgctt ttgatcaaag tttcctt 417

<210> 12730  
<211> 373  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 12730

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tctatgcctc tcagctcacg gccaaagcaa ggctgctgga gccagtctac ctggtggaga 180  
tccaagcccc agaaaatgca cttggtggta tctacggtgt totgaaccag aagagaggtc 240  
atgtctttga ggagatgcag aggccgggta ccccgctcta caacatcaag gctttcctcc 300  
ctgtcatcga gtcttttggg ttctccagcc aacttgaggc cgcaaccttc tgtcaggcgt 360  
tccccagtg tgt 373

<210> 12731  
<211> 408  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3059-013-Q1-K1-H1

<400> 12731

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cgcgaccaat ggaactgggc cagcaagaac ctttatggct atggatcacc tgactctatc 180  
aagcagaatg gtcaccaaac aaacggatcc gctgactcct ccaagcagaa tggccaccgc 240  
acaaacggtt caactgactc acccaagcgg aacggccacc atgcgtatgg gtctgctgac 300  
tcaccaagc gcaacgggca ctgcgttttt ggatcatcag acctcaagcc gaatggtaat 360  
ggccacctgc gctgaacaga actgtttggc ctgtgagctc cctgtaca 408

<210> 12732

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-013-Q1-K1-H4

<400> 12732

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<210> 12733

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-A11

<400> 12733

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aattataata accctcccca atttttttaa aacatatttt ttttacaaaa aaattatcac 120  
taattttttt tttatccatt ataaataatt ttacacctta ttttttaa ataaaaataat 180  
catattaaat tttttttttt ccaaaaaaat aatattttac ctttaaattt ttttaaaaaa 240  
aattttcatc ccaaaaaaat tttttttt 267

<210> 12734

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 acggcaccgn cagccccgggc ggctatgaag actatgcca tcgcgaaatc gacggcgatg 120  
 aagaagacca gttccccctct cctgatcgtc ctgttctca cagcagcagc catggcggcc 180  
 gagccggaga agcaggcggc ccccgcgga caggagacgg ccgtgcacat cgtgtacgtt 240  
 gaccgccccg aggacgccga ccctgaggag ttccacatcc gcacctcac cccgctctc 300  
 ggcagcgaac agaaggccat ggacgcagtg ctctaccact acaagaacgc cgtcagcggc 360  
 ttcttcgcca agctcaccct ccagcatgtc aaggatc 397

<210> 12735  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-B10  
  
 <400> 12735  
  
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 caaagcctaa caggtagatt gttttgtttt tttaatcttg tgtgaattca taaacgtgcc 120  
 tgaagctttc acatatacat cacttgcttt tatcatttca ataatttcag cttttctgtc 180  
 agatgaaaaa aactacaaag tgctttcagt atttattgca actatgtagt aattgaaaga 240  
 atggaaacac catcattatc tataaaggaa acattt 276

<210> 12736  
 <211> 206  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-C10  
  
 <400> 12736  
  
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cacccattca tacatacaac aagatatattt taaaattata tgacctatat tacatccact 120  
 ttcttaaatt atacaacata ttaactaata aaaccctaata catacataac ttaatatcat 180  
 atcaaaacat cctcatatat ctatca 206

<210> 12737  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-014-Q1-K1-C11  
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 aaaaaaagct ctctcgctct atagcatcca aactaacata cccgtgcac ctacgtcata 180  
 tctcttctat agagtcacct aaatacaatt cacttatccc tca 223

<210> 12738  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-014-Q1-K1-D10  
 <400> 12738

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 ggcgaccatt ttcccgaat gtcacaagc tcctatagct tcccttcttc ccccgtaact 180  
 ctcaccagtg ttgtcttcag tatgtgaaaa cccaattctt caacctaca ggatccaaca 240  
 tgcaattgca tcaggcatct tacctttatc acccttggtc cttcaacaat catcaaccct 300  
 attacagcaa ttacctttgg tgcaattaat ggcaccaaac ctttaaggcac caccaccttt 360  
 tccaacaaac cttgcttgcc aactttatca acaacagtta ccttt 405

<210> 12739  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D2

<400> 12739

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atgaccagct gaaggcggat gcaaaggagc gcggcgaggt catcagcacc aagaggcagc 180  
cgttgggccc caagcctggc ttcattggtg aggggactac catcgagacc gtcactccca 240  
ttccgtacga tgtggtcaat gatcttaagg gcggatacta ggttggtggt ttggtctttct 300  
acctgttcta catctgtggt actctagtgc gtacaatggt gctcacactg agcagtagta 360  
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<210> 12740

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-D4

<400> 12740

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gggtgttgca tcttagagca ttcttttagc tagaactgca aaatatcttc tacttggggg 120  
attttgttgt tagtctttat gcatatcatt tgcggacctg atgaacactt cataagtga 180  
tcaactctcg attctaagaa ttgataattt tcacatgcgg tgggttgtaat tgtgatattt 240  
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<210> 12741

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-014-Q1-K1-D7

<400> 12741

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agcagctagc tagctagcaa ccacctcgat cgacagaggg cggaagctca gccgcgaatt 120

cggcaagcaa caaggagaag tcttgggttc ctcgccacct ctcgatcggc caggcggatc 180  
 caagaagaga tggagaagaa ggcaggacgc gagcatgtga tcgggatccc agtgaacaac 240  
 agggccttcg gcatcgagga gccggatttc tccagcaaag gcgccgccag gaacgcagcc 300  
 gccgcgggac gggctgcaaa gtccggctgg acgaccgggg acagggtcgc tcaaggcctg 360  
 aaagaacacg tggctctggg gccaaacctg tacgagaccg tgagggggcaa gctgtcgtg 420  
 gnggcgagga tcctncgggc aggcggcgt 449

<210> 12742  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-E5

<400> 12742  
  
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 gcgacaattt tccctcaatg ctcaaacgt cctatagctt cccttcttcc ccatacctt 180  
 ccatcaatga tagcttcagt atgtgaaaac ccagctcttc agccctatag gctccaacaa 240  
 gcaatcgag caagcaacat acctttatca cccttggtgt ttcaacaatc gccagcccta 300  
 tctttggtgc agtcattggt acaaaccatc agggcacagc agctgcagca actcgtgcta 360  
 cctgtgatca accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt 420

<210> 12743  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-E7

<400> 12743  
  
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 gccaggaaga aaagaagctg aaccatgggg aagagaaagt cagctgctaa gccacctcct 120  
 aagaagcgga tggacaagct tgacactgtc ttttctgcc cattctgcaa ccacgggagt 180  
 agtggtgagt gccgaattga catgaagaat ctgattggcg aagcatcttg tagaatctgt 240

caggaaaaact tcagcacaac tgttaatgca ctactgagc ctattgatat atatagtgaa 300  
 tggattgacg agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc gtgagcttgc 360  
 cccatgcgat gaaactgtta cctaccatcg t 391

<210> 12744  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F11

<400> 12744

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 acatctttca tacactctac ttcataatgc tccctgtccc agtataactt atatacatcc 180  
 aaaccctca caatacactt cctaatatct acgcatttct taaccattat ataactcatc 240  
 tctttaatta tattcacatt cttatataccc caatctacaa catcaacact t 291

<210> 12745  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-F2

<400> 12745

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 gaccattttc cgcgaatgct cacaagctcc tatagcttct cttcttcccc catacctctc 180  
 accagcggtg tcttcagtat gtgaaaaccc aattcttcaa ccctacagga tccaacaggc 240  
 aatcacagca ggcattcttac ctttatcacc cttgttctc caacaatcat cagcctatta 300  
 catcaattac ctttgggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360  
 ctctgtctag caaaccttgc tgcctacgct cagcaacagc agttaccttt ggtgcaattg 420  
 ttggcacaaa acatcagggc acaaca 446

<210> 12746

<211> 179  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-F9  
  
 <400> 12746  
  
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 aataataaaa aaaataaaaa aaaaaaaaaa aaaacgacct cccactttat ataatccatc 120  
 cttacattct catgcattcg acctcatatc tacaactata gtgacaccta aatccaatt 179

<210> 12747  
 <211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-G1  
  
 <400> 12747  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa attaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaggcc gcccgttcta aagaatccaa gcttacttac cttccatcc 180  
 aacttcatac ctcttctata gtgccaccta aattcaatt 219

<210> 12748  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-014-Q1-K1-G2  
  
 <400> 12748  
  
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 gactaggggg aggaaggaat tgtagcagcg atctcgctca ccattctcac cgggacgccc 180  
 gcggaatcct caaatccacc cgaaccggtc accatttttt ttcttgagat actttggaca 240  
 cttttccttt gaccactcaa tcagcgttcc ttcccttgcg cgggtccgac gaccgatgtg 300  
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gcgcg

365

<210> 12749

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-G3

<400> 12749

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ttgttaattc caaatacc 78

<210> 12750

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H10

<400> 12750

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ggcgcgggcg gcggcctgat cagattgcat ctacgtcatc cgggacgtca acggggaact 120

gttctcgggc ggtgtcggcg gcggctgctt gccgacggcg tcgaatgccg cgatcgccgc 180

tctgtaagag gtgaaggcct gtgagtgggt cggtcgctct t 221

<210> 12751

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-014-Q1-K1-H12

<400> 12751

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aaagcttcac ttctgatttc cctcatgttg agaggatatt ctggaccatg gttaaccaac 120

ctaatttcaa gaaggtcatt ggtgaggcca agcaggcaga gtctgtacct cctgttctta 180

aaaagggtgt tctcctaag gagtcaaagg caaaggatgt gaagaaagaa actccaaagg 240

aggcccccaa gccaaagggt gttgaggtag cagcagaaga ggaagcacca aagccaaagc 300



caaagaatcc tcttgacttg ctgccaccaa gcaagatggt ccttgatgac tggaagaggc 360  
tatactcaaa cacaaagacc aacttccggg aggttgccat caaaggtttc tgggacatgt 420  
a 421

<210> 12752  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-014-Q1-K1-H3  
<400> 12752

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ggccacggac gaccactccc tccacaacgc cttcagcacc tacggcgagg tcctcgagtc 180  
caagatcatc ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg tcaccttctc 240  
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caacatcacc gtcaacgagg cccagtcccg cggcggccgt ggaggcggcg gcggtgggta 360  
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ctacggcggg ggcggc 436

<210> 12753  
<211> 546  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cgcaacatga cctgtgtacg aacttctgac tgcgtacact tacaacagcg acatacagct 300  
tacttaatcc acttagcggg ggcataaacc cattnnggtc gctgacctgt cctatcagca 360

gcaacatatt gctcgccata cnatccagta tctcttttga tgatacacct gccttgtcgt 420  
 tggcagcaac cccatcgctt ggtggtgcc aatcttttaga ttacatatga ngatgtactc 480  
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 tttatc 546

<210> 12754  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-A7  
 <400> 12754

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 aggtatcacc attgatatcg ctctgtggaa gtttgagacc accaagtact actgcacggt 180  
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 tgactgtgct gtccttatca ttgactccac cactgggtggt tttgaggctg gtatctccaa 300  
 ggatggccag acccgtgaac atgctctcct tgcgttcacc cttggagtga agcagatgat 360  
 ttgctgctgc aacaagatgg atgcaaccac tcccaaatac tccaaggcac gttatgaaga 420  
 gattgtgaag gaagtctcat 440

<210> 12755  
 <211> 248  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-A8  
 <400> 12755

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 ttccgcatgt tggtctattg ctgctatgta tctcacgttg gttattgctg aacttatagc 180  
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 aactgtac 248

<210> 12756  
 <211> 73  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-B2  
  
 <400> 12756

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 agaaaaataa aat 73

<210> 12757  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-B8  
  
 <400> 12757

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 gttagacctt gaacgtcttt tgcaatatgc ttttttgtct gccctgatta tattctaccc 120  
 cttcatataa cgcttgatgt gccgtcaaga aatggcgaaa cattggcatg actgtaaaca 180  
 agaaactaaa tacgggtata aaaatcgtgt catgtcatgt ccaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaata aaaaaaaaaat a 271

<210> 12758  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-015-Q1-K1-C1  
  
 <400> 12758

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 attatggtaa ccatattcca agggacctgg taacaattct ggtggcaatg gggtacaatg 180  
 aacccttggg tccataactg attaaaccac aaggggggtg caacctggta acgtgggcga 240  
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tgccaggtat gatgccaccg atgacaatga tgccgatgcc gaatatgatg ccatcgatga 360  
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<210> 12759  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C11  
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 ccccatgtgc gagtacatct catatgtaat ctaaaagatg gcacctccaa cgatggggtg 180  
 ctgcaaggca gggttcatca aagagaactg gttgtatggc aacaattggt gttgctgctt 240  
 caggaaggta gccaccaatg ggtagccac tgccaatgga ttaagtaact gttgtcgctt 300  
 ttgtagg 307

<210> 12760  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-015-Q1-K1-C12  
 <400> 12760

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 taaaaaactt taaaactatt taattaaaaa actaattaaa acccaattta accatgaaca 180  
 aactttgtta aattattaca gtctacaaat acttattcag gcaaaaaact ttgaggttg 240  
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<212> DNA  
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 tttgacctga atgcatggag gaagacaaca atcaaagaca aataccatca ttgggtcaag 300  
 gagaacctga agtcaaaactt cacactttgg aggctgggaa cattaccacc aggccttata 360  
 gcatttaaag gccatgttca cccaattgat ccatcatggc atctgttagg tttggggtat 420  
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 <213> Zea mays  
  
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 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12763

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gtaggaggcc gctgggtctg tcaaagcaag ttggacaaag ggcaacaatt gttgtagttg 180  
taagaggggtt gcgggggttag ccgcaaactg ctggtagaaa ggcagcaact gttgctgtgt 240  
caagaaggaa gcacggtttg ctgcagctag ctggctaaat ggtagtagta tttgctgctg 300  
caaataagca gcgngttca gtgcgac 327

<210> 12764  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-D3

<400> 12764

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caaaggcaaa ggatgtcaag aaggaggctc caaaggaggc caccaagcca aagggtggtg 180  
aggcaccagc agaagaggaa gcaccaaagc caaagccaaa gaatcctctt gacttgctgc 240  
caccaagcaa gatggtcctt gatgactgga agaggetata ctcaaacaca aagaccaact 300  
tccgggaggt tgccatcaaa ggtttctggg acatgtacga ccagagggc tactctttgt 360  
ggttctgtga ctacaagtac aatgatgaga acaccgtctn ctttgtgacc ctgaacaagg 420  
ttggtggatt cctgcagcgg at 442

<210> 12765  
<211> 475  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-D7

<400> 12765

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cgcgtcgcgg ccggaggcgt acccggcgct ccgattcatc cgcagctgca gcgcgtcgct 180  
ggcgccggcg atcctggagc ggctggaggc ggcgttcagc gcgccggtgc tggaggcgta 240  
cgcgatgacg gaggcgtcgc acctgatgac gtcaaaccgc ctgccggagg acggggccacg 300  
gaagccccggg tcggtggggc gcgcggtggg gcaggagctg gcggtgctgg acgaggaggg 360  
gcggctcgtg gcggcgggga gccccgggga ggtgtgcgtc cgcggggaca acgtgacggc 420  
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<210> 12766  
<211> 472  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-015-Q1-K1-E1  
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aaccacagac tcgtaaagct tcttcggggg aaacctgcag catgagcacc aatttgagag 120  
ccctcaagat accaaggaga aactggaagt taggagaaaa gaagtccttg gccgaataaa 180  
atgtgtgcct acactttact ttttggcttc tacagctttg caggagtatt tagtattttg 240  
atttgacagc aacacataat gacataacta ctatgagcat tgctaattaa ttacaccgg 300  
taccttcggt tgagaaattt tcttccattt ccagcatctg ctggcagacc tgaagggca 360  
tctccagctc agggatcatc tagtgngaac caccacaaa atgaactcta ttaggagggg 420  
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<210> 12767  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-015-Q1-K1-E2  
<400> 12767

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 agtgaggatg gacaagtagc gttacccaat ataataatat tatctagttt tcttgaactt 180  
 gttcgaatga tgagtgtta gctgtgtgat ctgacgcaga gttccctgtg ctgactctgt 240  
 gtcattgatg gtccatttta tcttgtggta ttatcagcct ttacataact gctatgtttg 300  
 gatatgttca attctgttgc aattttatgt ggttgttttt tgcgttttgt tgctattaag 360  
 ctgttctttc aatcggctaa tggtttgctt aaatgttatt ta 402

<210> 12768

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-E3

<400> 12768

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 ccggccgtag gtccaaaata gttcccatg gcgtccatat cgtcgcttcc ctttgcgccg 180  
 ctgcgcggag ccgccgagtg gaggccgtcg tcgacggcgc cggccgtctc cggcgccgtc 240  
 gtgctcagcg cgaggtctcg gcggggctcg ggctcgggct cgggctcggg ggtgcgctgc 300  
 gtcgccacgg cgagtgatgt cccacctact gttggagaaa caaagttgaa cttccttaag 360  
 tcatacaaac gccaatccc aagcatttac agtacgggtc tacaagaact tctggtacag 420  
 caacacctga tgagatacaa aagaacctat cagtatgatg ct 462

<210> 12769

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-F1

<400> 12769

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 ttaaccagaa aaccattggg ggattagcga gggatatcaag aaaaggcctg aatcttctgg 120



cactaatcct gcattgcatt caaaccattt atatcttgca acaacctcta ccgattgtaa 180  
attccaaatg gtctctacct ttattaaagg tgtaaaccac aagggatcac ca 232

<210> 12770  
<211> 462  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-015-Q1-K1-F3  
  
<400> 12770

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gaagcaggga gttttgactt ctggtcgggt tcgtcttctg ctccataggg gcactccctg 120  
cttccgtggt tatggcaggc gtaatggatga ggcgaggagg aagtctgtcc gtggttgcat 180  
cgtgagccaa gacctatctg ttatcaactt ggtgattgtg aagaagggtg agaatgatct 240  
gcctgggtctg actgacactg agaagccaag gatgaggggt cccaagaggg cctccaagat 300  
cagaaaagctg ttcaacctta acaaggatga tgatgtacgc aagtacgtga acacataccg 360  
tacgacattc actaccaaga acggcatgaa ggtcagcaag gcacctaaga tccaacggct 420  
tgtgacaccc ttgacccttc agaggaagcg tgctataatc gc 462

<210> 12771  
<211> 457  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-015-Q1-K1-G1  
  
<400> 12771

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agaaataccg gggttccacc gaggaattac cttttgggcc aaccttgtac cttaaagaaa 120  
ccttccactg ggaaaaagga ccatgctctt atttctggaa tggaaaatgc caatgaaact 180  
ggtactagaa accgatcatt tgccccgaaa ccatcttatt tttatcaagg tgaagaccct 240  
tggaacctgtt aacttttccg gatacttgaa acccttaatg gttaaacctc aaatttaacc 300  
gtccacattt tgaccagtta aacaccaggg cctttcaacc agaggagccg acctcctggg 360  
tttctcagca ggaggagcag ttaaagtgtg ctaaaggcca gagatcaaag aggaagaggc 420

cttcgatgga gaaggcagat ggtttggacg gtataac

457

<210> 12772

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G2

<400> 12772

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ggggctttcc gacttcgacg cccacttcga tcgcctcttc gcttccccgg acgccgcctc 180

cgacggcaag gtgaagctgc tgctcttctt ggccgaccgc aagcctggct cctccctctc 240

ctggtgcccc gactgcaacg tggcggagcc ggtgatctac gagcggctgg aggcactgga 300

gggcaaggac gcggtgctcc tgcgcgccta cgtcggggac aagcccactt ggcgcgaccc 360

ggcgcacccg tggaggggtg accccaggtt cgggctcaag ggcgtgccaa cgctgatccg 420

ctgggaggat 430

<210> 12773

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-G5

<400> 12773

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tgggtggtgcc cttttttaaa atgcttaata gggggaattc aataattaag gtttttggat 120

gatgtatgtg gcccacccga aattagaagt tacattttca gattttaatg gg 172

<210> 12774

<211> 352

<212> DNA

<213> Zea mays

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<400> 12774

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 tactgcctac tgacccgttc atcttgatta ggcaatatgg ttatcccttc accagctatg 180  
 gctcctgcaa tcaccaagtt cctcaatccg tatattttga atatgcattt cacaacaat 240  
 ttcattgagcg ctcatgtcat ccacacacct acagccactg tcgcatgctc ttcaagctct 300  
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<210> 12775

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-015-Q1-K1-H6

<400> 12775

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 cctgttcgcg cgcctcttat gcaagaaggg ctacatcccg ctcaccacct acctccggac 180  
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 gcacaagttc taccacggtc gcaccggtcg cgtctggaac gtcaccaagc gctccatcgg 300  
 cgtcgagata aacaagcagg tgaatggtcg catcattagg aagcgtatcc atgttcacct 360  
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<210> 12776

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B1

<400> 12776

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<210> 12777  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B3

<400> 12777

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cttgcccttt tggagcgcac aagcgtcatt attccccaat gctcacttgc tctaggccat 180
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<210> 12778  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-B4

<400> 12778

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gccgcccgcg tcgtgctcag gctcggcacc ggaggggatgc atctgccgga gtacgcgctg 180
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gcgctggcgg cgcgcgtcgc cgtgaggctt ctggcggggg ccaacgtgct ggccctgcggc 360
gcgctggagg gcgcgtgat gaatccggcg cgcgcgttcg ggcccgcgct cgtgggctcc 420
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12779

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gtcctatag cttcccttct tccccgtac ctctcaciaa cgggtgtcttc ggtatgtgaa 180  
aaccacaatc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240  
tcaccttgt tccttcaaca atcatcagcc ctattacagc aattaccttn ggtgcattta 300  
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tactc 365

<210> 12780  
<211> 68  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-C3

<400> 12780

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<210> 12781  
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<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-D12

<400> 12781

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tactccgcgc cttcaattgt gttgacatct cgttcacgag atggggtgca tgtttttgat 180  
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aataacacct ggaacaacac tcatatagca acagttggta cagcaatgtc gtccccagaa 360

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408

<210> 12782

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 12782

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attgagaaaa ttctcaaggc tggagcta atgtgtgtga ccaccaaggg aattgacgat 180

atgtccttga agtactttgt tgagggttgg gcgattgcag taaggcgtgt gcgcaaggaa 240

gatttgcgac atgttgccaa agccactggg gcaactatgg tgtctacttt tgcggacatg 300

gaagggtgaag aaacattcga ttcattcatt cttgggtcatg ctgatgaagt tgttgaggaa 360

agaattgctg acgatgatgt tattctgggtg aaaggcacia agaacaccag cgcgggtctct 420

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<210> 12783

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-E12

<400> 12783

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tggtgggcag gagcctggta ccaatgagga gattgtccag tttgctgca cacgcttcaa 180

ggctgagtac cccatcttcg acaagggtga tgtcaacggg agcaatgctg cgcccatcta 240

caagttcttg aaatctagca aagggtggct tttcggcgac agcatcaagt ggaacttttc 300

caagttcttg gttgacaagg agggacgtgt tgtggatcgc tatgctcaa ccacttcacc 360

cctgagcatt gagaaggata tcaaga 386

<210> 12784  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-F2  
  
 <400> 12784  
  
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 ttattccaca atgctcactt gtccttagtg ccattattcc acagttcctc ccaccagtta 180  
 cttcaatggg cttcgaacac ctagctgtgc aagccaacat gcaacaacaa gcgcttgcg 240  
 cgagcgtctt acaacaacca attgcccaat tgcaacaaca atccttgcca catctaacaa 300  
 tacaagccat cacaacgcat cagcaacaac agttcctacc agcactgagc cacctagcca 360  
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 cg 422

<210> 12785  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-F3  
  
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<210> 12786  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-016-Q1-K1-F4  
  
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aagatgtgag gtggaaaatt aactttttgt caacccaaaa gtgggagaac ccgttgatgg 180  
gatggacatc tactggggat ccatatgcta atgtcgggtg agcaagactt acattcaaca 240  
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ggcatacacc tt 312

<210> 12787  
<211> 207  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gctgtgcctg ctctgcgggc tctggnccgt ggccctgcgg gcctggccct gggctgngg 180  
tggctgtggt gctctgggcc cggggcc 207

<210> 12788  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-F8

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gtgcaagcct ataggctaca acaagcgtt gcggcgagcg tcttagaaca accaattgcc 180  
caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcatcaacaa 240  
caagcactga gccacctagc cgtggtgaac cctatcgctt acttgcaaca acagctgctt 300  
gcatccaacc cacttgcttt aacatacgtg gctgcatacc aacaacaaca acagatgcaa 360  
cagtttctac caacgc 376



<210> 12789  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G2

<400> 12789

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gaggtgaggg acagcgtcga acggctggac caggccgacg tctacagccc tggggctggg 180
aggatcacac tgcctcacca gccacaagtt ccccgctctc aacctcgtac agatgatcgc 240
ggtgcgagta gacctgtacc aggacgcat catgtcaccg ttctggaact tcaacgcccc 300
cagcgccatg tacggcatca agggcagtgc aaggatccaa gtcgccagcg acaacggtac 360
cacggtgttc gacgacgtgc tccgtg 386
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<210> 12790  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-G4

<400> 12790

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cattgttgtg aaggcgctgg ctccgctcct tcaacaaaga cctgcaccag gcaccgcaga 120
gccagccccg caacctgtga gctgaatcca gtcacgtgtg atgggacctc gcagcatcag 180
gcatctccgc gatcattcaa tcagcaagtc attgagagta ttttgaatat ttgttctgta 240
gcattctgtt cctggcttga tgttggcgct gcacaatgac aatggtatat gcagtaggtt 300
tgattattct ttttctttta ctttctctat accagtacca agttaccaac tgttccgaga 360
ttttcagaat tcgctgcttg aagaatagat gcaggatgat ctgga 405
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<210> 12791  
 <211> 208  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12791

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cgtcgtcttc ctcggggggtg gcgctgttcg cgtccctgt gtcccgntg tcgcgtcct 120
ggctgcgctg ggcgggcgccg gcgcgcggct gcggctgttc tgggcgggcc tgcgggtccc 180
tgccggcgctc tccgcggccg tggctggc 208
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<210> 12792  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H10

<400> 12792

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agatcgacga aatcactaaa ccacgcggag gaggaggacg attatatata tggacataaa 180
ttgggtctcc ttgctgcgta aatgcttcaa gaggtgctg atccaaaaga atgaagccat 240
ccatggctcg actgcaaata tcgacaacat gttttggaca agacatttag cgatataggt 300
cgtcattagt tttaacattt acaaaagaac aatatttgtt ttcaattgaa gtttaaactt 360
gcagactgta tagttgtgat tacaacaagt attgcggatc ctgtcacttt aaaccattgt 420
ttagttgcct taatcaaa 438
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<210> 12793  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-016-Q1-K1-H12

<400> 12793

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gcattcatag accactgcac cgtttcaagg acagttgatg cgaatgtgtc tgaggcggaa 120
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ggtgtataca gcgccttgga gaagcttggc atcgactggg aacaggttgg aaagcagctt 180  
 gagctggaac gcgtggactc cttcaagaag agctttgaca gcctactcgt gagcctgcag 240  
 gacaagggca acagtctcaa gatggcgagt gtgtaaagct gataagattg ggtacctgcc 300  
 agtgaacgat ttactaaat aaaatgctag cttgctggct cttctcttac tatttaacgt 360  
 gtacctttgc tctcaattat ctgaatcggc t 391

<210> 12794  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-H6  
 <400> 12794

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 ccctcccaaa ctccagcggc cccccctgac caagctccgg ggacggatgg acggaggagc 180  
 cggctttccg ggcacgcagc cggctctccg ctgcgcggag gacgtcttcc gggactaccg 240  
 cgcgcgccag gccggcctga tcaggcgct caccaccgat gtggagaagt tctacgtgat 300  
 gtgcgaccca gagaaggaga acttatgttt atatggactt cctaataaga catgggaaat 360  
 aaacttgctt gctgaagagg tcctcctga actgccagag ccagctcttg gaattaattt 420  
 tgctcgtgat gggatggatg aaa 443

<210> 12795  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-016-Q1-K1-H7  
 <400> 12795

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 gctttgatit ttcatagcaa tgtgcttggt ttatgggtata tagattattg ggtatttcta 120  
 ctgtactggt tctgcccctg ctttcatttg atgtcactag tggtagggag tgtggcataa 180  
 tcatgtagat gtacctgcta tgcatacatc gtattaataa atggcaccat tgctctcata 240

tactaagaac aactgt 256

<210> 12796  
<211> 55  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-016-Q1-K1-H9  
  
<400> 12796

caacaacaac tatgtgaaaa gatcaacatt caacatccct aaaattcatt attta 55

<210> 12797  
<211> 220  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-017-Q1-K1-A1  
  
<400> 12797

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tgctgccatt caaccaactt gctttgacaa actcaacagt gttctaccaa caacccatca 120  
ttggtggtgc cctcttttag attgcttatg agttatagtt caataatgaa gttttttgga 180  
tgatgtttgt ggcgtcccag aaataagaaa gtacatttct 220

<210> 12798  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-017-Q1-K1-A10  
  
<400> 12798

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tatttacagc agcaacaact actaccattc agccagctag ctggtgtgag ccctgctacc 120  
ttcttgacac aaccacagtt gttgccgttc taccagcacg ctgcgcctaa cgctggcacc 180  
ctcttacaac tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagca 240  
ttctaccaac aacccatcat tgggtggtgcc ctcttttaga tttcttatga gttatagttc 300  
aataataaag ttttttgtct gatgtttgtg gcttcccaga aataagaaag tacattttcta 360

aaaaaaataa tattatttat tataataaaa aaagggcggc cgttttagag gatcc 415

<210> 12799

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-A8

<400> 12799

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ccaatggggg cggcgccgtc gtccgacgac tcgtcacgcg ccggagacgg ccgggctgtg 180

gcgagcagcg ctgcctctgg cactggcact gtcagcaaca gcatccaggc ccagtctaag 240

ctggcgctct ttgttttaat gttcctatta gatgtttttg tttgttctat ta 292

<210> 12800

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-B10

<400> 12800

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tttttttttt ttttttattt ggggccataa aatcaatcat taattaaaat aaaaaaatca 120

ttatacccat aaaaaaaatt aacatactat attcccaaca aattttaact gacattatac 180

aataaacaaa ataaaaaaaa taccccaat tatgaaatcc ccttaattaa ttgaatataa 240

accctt 246

<210> 12801

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-C4

<400> 12801

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atagtggtag actgcagggg aaggtggatg agcgttatca tgccaaacaa aaggatgaca 120  
 actggagaca tagagaaagg gacaatagac agaggcccaa gcatgaaaat gtgttaaccc 180  
 ttccgaagga agaaggaaga ggaactggtc ggcgtagtcg gatgatggat gataagttgg 240  
 tcagtggtag taggaacaag ggtgaaccaa gatcttctgt attaagcaaa gacactcgag 300  
 aacgtacaag gcaaaatgaa tcttcgagga gaggtcaggg tgtgcaagaa aacaacatgc 360  
 ataataaagg gcgtactgat gtacattcac gtgatgacag tttaaacagt gagaggaact 420  
 tcaggctagt ataacataac aataa 445

<210> 12802  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-C5  
 <400> 12802

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 catgcacaca tactggtaga caataaggca caacatgaag gaaccagggg gggggcgact 180  
 atttcttcat gtcgtcaaga aaagacatgc atgcatttgg cgctccctg catcgttgta 240  
 ccacaaacgc gcaggctccc tggatgcac accgaatttt 280

<210> 12803  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-C6  
 <400> 12803

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 ctggaagggt ttgcttcccg aaataactaat ggtagcagaa gcaacaccct ctctctggt 180  
 cctccatctt ctgtgccaca tgctactgaa gttcctccga gaagacaggg tgggtggacaa 240  
 cctgatattg gcagcatgat atctggatat ctcaacaacc cagttttcag caacatgttg 300

togaatgtgg caacacagcc agggggctct agtgctgatt tgaagagcgt gttggaagga 360  
 ttacaaagcc ttgctat 377

<210> 12804  
 <211> 117  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-D11  
 <400> 12804

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 ggcgtcagca ggcggaggcg gggttctctc gcagtttgag atggagcatt acataca 117

<210> 12805  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-D4  
 <400> 12805

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 aaaaaaaaaa aaaaaaaaaa agaaaagttt aaaaaattag gtaaaaaaaaaa aaaaaaaaaa 120  
 aaaaagggtta tctattttaa attttccatg tttacttacc cttccttctt atttaataac 180  
 ttttttattt cttcccctaa tttaaatcta ttgcccttat ttaaacadct cctatacttt 240  
 taaaactttt cttttaccaa ttttattttc cttgaaaaat ttttcttttt ctcaagtttt 300  
 ctattttttt tatttctctc ttttttatgg gtgttttcaa tatttttact tctttatttt 360  
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 atttttactt ttttttttct ttat 444

<210> 12806  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-E12  
 <400> 12806

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 cttacaacaa tatattccat tcaaccaact ttctacacta aacccttcta cttattttca 180  
 acaacaacaa ctactaccat tcaaccatct atctatcttc tactctcatc atcaacaatt 240  
 tcttacattt aaccaattta ccttacttaa cccctttgct tattttcatc atcaaatact 300  
 actaccaatt ttccatcata actacaa 327

<210> 12807

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-E7

<400> 12807

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 gatccacaat ggagaaatga caacaagata tgccaagata aatgtaactg gtcggttcga 180  
 caaaccacaa ctatatttgt tggattccat cacatcacgt ataaaacatt gggccttgta 240  
 atgaaacttc cgtgccaatg agatgaaaat gcctacctac aacagcaaca actgctttca 300  
 tgtagccctc tcgttggtggg taatgcacct acatacctgc aacaacaatt gctgcaacag 360  
 attgtaccag ctctgactca tctagctgtg gcaaaccctg ctgtctactt gcaacaac 418

<210> 12808

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G3

<400> 12808

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 ggcaccctct tacaactgca acaattgctg ccattcaacc aacttgcttt gacaaactca 180  
 acagtgcttct accaacaacc catcattggg ggtgccctct tttagattgc ttatgagtta 240



tagttcaata atgaagtttt ttggatgatg tttgtggcgt ccagaaaata agaaagtaca 300  
 tttctagatt ca 312

<210> 12809  
 <211> 188  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-G5  
 <400> 12809

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 tatgaacacc aaccggttcc actcgcccat ccactttcac tccccctcca atatccttca 180  
 tcacacca 188

<210> 12810  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-017-Q1-K1-G6  
 <400> 12810

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 actctgctgc ttatttgcaa caacaacaac tactaccatt cagccagcta gctgctgcct 180  
 accaccagca atttcttcca ttcaaccaac tggcatcatt gaactctcct gcttatgtac 240  
 aacaacaact actaccattc agccagctag ctgctgtgag ccctgctgcc ttcttgacac 300  
 agcaacagtt gttgccgttc tacctgcacg ctgcgcctaa cgttggcacc ctcttacaac 360  
 tgcaacaatt gctgccattc aaccaacatg ctttgacaaa cccaacagcg ttctaccaac 420  
 aacccatcat tgggtggtgc 439

<210> 12811  
 <211> 317  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-G8

<400> 12811

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tcccttcgcg tcaagcgcat caaggccctg ttcaaagccc acacaaagca tcaccggacg 180  
gtgctactcg acaacatata gatcatcacg aatcatacta tccctatgct atcacggatg 240  
cacgacactg accgcatttc tgagctcacc tactagaata cccgcaacgt actcaagatc 300  
tttatggaaa acttcat 317

<210> 12812

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-017-Q1-K1-H12

<400> 12812

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attgtcagtc cagatgcaat gtttgatgtg cagggtgaaaa ggatacatga atataagcgg 180  
cagctgctaa atatccttgg aattgtctac cgctacaaga agatgaaaga aatgagcaca 240  
gaagaaagag caaagagctt tgttccaagg gtatgcatat tcggtgggaa agcatttgcc 300  
acatatatac aggcaaaaag gatcgtaaaa ttattacag atgtggcagc taccgtgaac 360  
catgattcag acattggaga tttgttgaaa gtcgtatntg ttccagacta taatgttagt 420  
gttgccga 428

<210> 12813

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-017-Q1-K1-H2

<400> 12813

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ccaaccaaca agcaaaaatt ccggagatgg tactagtctc cgcggcgaag atgtcagtgc 120  
gcggaaggcg cggcaaggcg ctgggcaagg gcggcgcgaa gcgtcaccgg aagggtgctgc 180  
gcgacaacat ccaggggatc acgaagccgg cgatccggat gctgtcgcgg cgggtgcggcg 240  
tgaatcgcat ctcgagctc atctacgagg agaccgcag cgtgctcaag aactttctgg 300  
agaacgtcat tcgatactcc gttacctaca ccgagcacgc gcgccgtaag accgtcaacg 360  
gcatggacga ttacta 376

<210> 12814  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A10

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gggagtgttt ggtacgatga atcactctat ctatgcacag ataaagaa 168

<210> 12815  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-A7

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cgtaagcaac caggataagt ggtacctaga tcacttggat gctacatggg aaggatttta 180  
cacgaatgaa cactgacaa atatctacaa cccggagcag cagaaattgg tacttgggtg 240  
tgaggatatgc atgtggggcg aacacattga tgcacagac attcagcaga caatttggcc 300  
acgtgctgca gcagctgcag agcggctatt gacaccaatt gagaagctgg cgaaggacac 360  
aagatcggtc actgcaagat tggcacgctt caagtgcttg c 401

<210> 12816  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-A9  
  
 <400> 12816  
  
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 agcgacagcg acggcaaggg atggccaagg ccaggctcgtt ggcgaagcag aagcaggcgc 180  
 agcaatcaaa cggcggcagc tgccacgcgc tgtcctgcaa gctcgcccgg tacctcgacc 240  
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 tgggtgctcat atgcagcctg ctctggggag ccgtccccgt cgtcggcgcc ttctggatcg 360  
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<210> 12817  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-B6  
  
 <400> 12817  
  
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 ttatatgcat gcttccctta agtagattgc cagtagtatt tgcgtatggg gagctggctcg 180  
 gtccctaatg tctgtcccca tgtacaaaac cagatcaaga tgcttgggct tccgggttgag 240  
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 aagagttaaa c 311

<210> 12818  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-018-Q1-K1-B9  
  
 <400> 12818

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 tgtttgttct tctgtttttt ctctcccagc accagcttgt actgcactta cagttaaaag 180  
 attattacta acgttgtgtg cc 202

<210> 12819  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-C11  
 <400> 12819

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 tgttgacata gatctctacg aaggcatctg cactgacatc ttaactttta taatatggaa 180  
 actgtatgtc acaaaattat actctctaaa atactctggc aatgctgttt gcactgagct 240  
 gatgattgtc gagatcatta tggcaaatcc aacaagagat ccatgatcag atgccgagac 300  
 tgacgacgat atggacgatg attattgtga tcatagtatt atgctttaga tgacttatat 360  
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 gcctt 425

<210> 12820  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-018-Q1-K1-C7  
 <400> 12820

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 cgtcggcgtc gtttcgtcca ggccagggcc cttcgcggcg acgtccggtc ggttcctggc 180  
 gacggtcacc ggtaaaggcg ggcacgcgcg gatgccccac gaatccatcg accctgttgt 240  
 agctgcagcc actactgtcg tcagcctcca gaagatcatc ttccgagata tcgatccct 300

gcagggcgcg gttgtgtccg tcacttttct taatggagga gtagcttaca ttgtctttct 360  
 agatattgtg gcctttttc 379

<210> 12821  
 <211> 205  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-C8

<400> 12821

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 atgttttacc acaaattaat gacattacga catgccacag ttctttctca tagcttctta 120  
 caatctttaa atcctacaca cctcaatacc ctattactct atatcttata tagtagatat 180  
 atttactcaa attgtcatcc tttat 205

<210> 12822  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E2

<400> 12822

gattccccgc tggacccacg cgtccgcgga cgccttcgga gcaaaataac tcgttacata 60  
 aggagacgcc gaaaattcga aatggtaggg ttaagcaaac ctgatggcgg atgcccactg 120  
 caaagcaaag caaatggcgg atgccccgag caagatcgaa tgcattgatta agagcctcga 180  
 ccagcacaag ctcagagccg tatgttgcca ctggctaggt ggcacacgca gttcgatcgc 240  
 ctacaactgg tcgcggccca atatgaagcc taacgtcaag atcatccact caaggttgca 300  
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<210> 12823  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-E6

<400> 12823

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 ttcgctatgg cgataggcgt cataaggaga acgttttttg ccatacacta gcgttcttaa 180  
 cttctactaa ctttctctgt agtttctctt ctttttgctc tgtctcatct catttgtctc 240  
 atctttattt acatttttat atca 264

<210> 12824

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F6

<400> 12824

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 ctccaaattc gcctgtcag gtatcaccat ccacccgct agctactgcc tactctcatc 120  
 aacaacaact ttttccattt aaccaattgt cgcacttaa ccccgctgct tatttgcac 180  
 atcaaatact actaccattt atccagctag ctgcatcaag ccgttcttcc ttctttacac 240  
 atcatcagtt gctgcctttc taccatcagt ttccggctaa cccctcaacc ctcttacaac 300  
 tacaacaatt gtttcccttt gtccaacttt cttttacaat acccatattc ttctaccaac 360  
 aacacattat tttttattcc cttatttata tttcttatta ttt 403

<210> 12825

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-018-Q1-K1-F7

<400> 12825

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 atgctccttg gtctttctgc aagtgttgc accgcaacca ttttccaca atgctcacia 120  
 gtcctatag cttcccttct tccccatc ctctcaccag cgggtgtctt agtgtgtgaa 180  
 aaccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
 tcacccttgt tctccaaca accgtcagcc ctattacaag agttaccttt ggtccatttg 300

gtggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgca 360  
tactctcagc aacatcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
tatttgcaac aa 432

<210> 12826  
<211> 425  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-H8  
  
<400> 12826

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gctggctggt gatccgaacc ttcactttgt tgaagctggt gctcttaagc ctccggaagt 120  
taccatcgac atggctatgc agcagcagca tgaagctgag cttgctgcag cagctgcaca 180  
acctcttctt gatgacgatg atgatctgat tgagtagaaa ggatcatgag tcttggactt 240  
gagcaggagt tgtgccttgc acgatttaag ttgttctagg gtggactctc tcttgagtta 300  
tcattgtctg gatcattttt ttctccttgg acttggtgca acttttgagt gtggaaatgg 360  
attggaatag tcgccatgaa tttgctggct actttatata tgtctttggt cataaacctt 420  
ggttt 425

<210> 12827  
<211> 465  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-018-Q1-K1-H9  
  
<400> 12827

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aacaacaact accattcagc cagctacctg ctgcctaccc ccagcaattt ctccattca 180  
accaactagc agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca 240  
gccagctagc tgggtgtgagc cctgctacct tcttgacaca accacagttg ttgccgttct 300  
accagcacgt tgcgcctaac gctggcaccc tcttacaact gcaacaattg ctgccattca 360



accaacttgc tttagacaaac ccagcattgt tctaccaaca acccatcatt ggtggtgccc 420  
tctttagat ttcttatgag tcatagttca ataataaagt ttttt 465

<210> 12828  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-A9

<400> 12828

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caactaccta tcaacaatgg ctaccaagat attatccctc cttgcgcttc ttgcgctttt 120  
tgcgagcgca acaaatgcgt tcattattcc acaatgctca cttgctccaa gttccattat 180  
tacacagttc ctcccaccag ttacttcaat gggcttctaa caccagctg tgcaagccta 240  
taggctacaa caagcaattg cggcgagcgt cttacaacaa ccaatttccc agttgcaaca 300  
acaatccttg gcacatctaa caatacaaac catcgcaacg caacagcaac aacaattcct 360  
accagcactg agccacctag ccatggtgaa cctgcccgc tacttgcaac agcagttgct 420  
tgcacaaac ccacttgctc tggcaaacgt agttgcaaac 460

<210> 12829  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-B5

<400> 12829

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catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 180  
gccgctggct agctagctag ttgagtcatt tagcggcgat gattgagtaa taatgtgtca 240  
cgcatcacca tgggtggcag tgtcagtggt agcaatgacc tgaatgaaca attgaaatga 300  
aaagaaaaaa gtattgttcc aaata 325

<210> 12830  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C1  
  
 <400> 12830  
  
 ctgactccaa atgggtgaca caacgtaaaa tatacagcta tctacttcgg ctgtaaacat 60  
 acgtgtctcc gaagtttttt atattttggg ctaaaaaaaa aaataacaaa aaaaatca 118

<210> 12831  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C10  
  
 <400> 12831  
  
 attcccgggt cgaccacgcg tccgccacgc gtccggaaaa aataatgttt aaagtgcagg 60  
 ctatgggaaa gctggactct gagaatcact tgtcggctgc aactgaggtg agacttcac 120  
 agatcacagg atcctgccac tggacgtatc tcgcgtact ggaaagcgat actttacgtt 180  
 tcggccctag cttttgcttg tcggccagga tacaagaaca tgctttgatg ccatcttcca 240  
 aattggcata atgtgagaat tgaccggctg cacgactgtt cggcatattg acatactatg 300  
 accaatggag tatgttatgt agctagctgc tactttgtag ttagtgcggtg atgat 355

<210> 12832  
 <211> 168  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-019-Q1-K1-C7  
  
 <400> 12832  
  
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 aaaaaaaaaa taaaaataa aaaaaggcca tacaatttag aagatccaag cttacatccg 120  
 ctttcttgca aagtcttaac tcttttatag tgatacctaa attcattt 168

<210> 12833  
 <211> 370

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-C8

<400> 12833

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 aaacgcacgc atgctctatt atagctagtc atcactatat atatacttgt gtttgtgtat 180  
 tgatgttctt gttctgctgg tgtctccgcc gtttaatttg acctatgtta tggagtgagt 240  
 gatatatgtg ccgtcactcc tagtatatag tagtgagtga ctagttggta tgtgtagtac 300  
 tgtactatct tttatccata tgcattgttt gccagcgct aatgaatgta atgtcagtac 360  
 tgctactaac 370

<210> 12834  
 <211> 72  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-D12

<400> 12834

attctttgca actctgagta gagagataca cggaatgttc agcttttcag atccaaagga 60  
 aaaaaggaaa aa 72

<210> 12835  
 <211> 133  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E1

<400> 12835

cgattcacgg ttgatctggt gactgctgtt cagtttgctt ctttcgcgta aaattatcgg 60  
 gtgctctgga aaagaaactt gaggcttgta ttgcatcttt gataacataa tattataata 120  
 tatgtagaga ctc 133

<210> 12836  
 <211> 223

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E10

<400> 12836

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 aaaattaaaa aaaaagaaaa aaagatatgg aaaataggga ttacaaaaat caataatgct 120  
 aaattattaa caataaaaaa gtgggtatcta aattcatata aattggacga tatttaacaa 180  
 ctgtaactaa tgataaaaacg ttgtaagtta gcgatcttat taa 223

<210> 12837  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-E4

<400> 12837

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 tcaagcagtg gtacctcact cactatggag ttgacattgg taggaagaag aaaacccttg 180  
 ctgcaaagaa ggataatgct gagggacaag aggttgaggc agcagctgag gaaacgaaaa 240  
 agagcaacca tgtcacgagg aagcttgaga agcgcaagga gggacgtacc cttgaccac 300  
 acattgagga gcaatttggc agtggacggt tgctggcatg catttcttcc cgccctggac 360  
 agtgtggccg agctgatggg tacatccttg agggtaaaga gcttgagtto tacatgaaga 420  
 agctacagaa gaaga 435

<210> 12838  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-F5

<400> 12838

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tagacaccaa gccaccgcca tggggcgatat gcacagccgc ggaagggta tctcttcac 180  
ggcgctgccg tacaagagga ctctccgat ctggctcaag acagctacca ccgaggtgga 240  
ggagatgatt accaaggctg cgaagaaggg ccagatgccg tcgcagattg gtgttctgct 300  
ccgtgaccag cacggcatcc cgcttgtcaa gagcgtgact ggtagcaaga tctgcgcat 360  
cctcaaggcc catgggttgg cgccggagat cccggaggat ctctacttcc tcattaagaa 420  
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<210> 12839

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-G4

<400> 12839

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gggtaatgca cctacatacc tgcaacaaca attgctgcaa cagattgtac cagctctgac 180  
tcagctagct gtggcaaacc ctgctgccta cttgcaacag ctgcttccat tcaaccaact 240  
gactgtgtcg aactctgctg cgtacctaca acagcgacaa cagttactta atccactagc 300  
agtgcctaac ccattggtca ctgccttctt acagcagcaa caattgctac catacagcca 360  
gttctctntg atgaaccctg ccttgctgctg gcagcaaccc atcgttggag gtgccatctt 420  
ttagattaca tatgagatgt aatcgataat gg 452

<210> 12840

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-019-Q1-K1-H2

<400> 12840

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ctgcattttc ctggcatttg cattcacctt gctgtacttc gtaaaaccaa ggaaactggg 180  
agaccacaac tacttatcct ggaacagacg ctaggatggt tcggaacacc aagtgtccgt 240  
actactcgaa atgtagcttg tatgaaatga aatgctctga accagaaatg tcgatgggca 300  
taagcaagca tggttcagga aagaacttca tgtatatttt ttacgaaggg gtctaagtgg 360  
ctacgttaat tttggttnc tggggtcctt agtgtagcac tgaacaggag aataccaaat 420  
gaactctatt agcttgcttc cgtgggt 446

<210> 12841  
<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-019-Q1-K1-H9

<400> 12841

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agtctattac agaaatgttg ttcggagctg agtctattat aaacatcttg gtctgagttt 180  
attgttgagt ggtgccagtt tttttcaata tacattttatc ttaaaaaac 228

<210> 12842  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-A3

<400> 12842

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tctgttcttg gatcaaagac tacagaccac actgtattct tgctgagggt tcacagcttg 180  
gtgacaagtg tagtgtgaag cgatctgtga ttggctgtca ttgccgaatt ggttccaatg 240  
taaagatcgt caactctgtt gtgatgaatc atgttggtgt tgaagatggt tgccacatcc 300  
aaggttctgt tgtatgtaat aatgttcaac tgcaagaacg ggcagttctg aaagattgcc 360  
aggttgaac tggttatatt gtgactgctg gcagcgagca caaagc 406

<210> 12843  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-A6  
  
 <400> 12843

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 acctcctatt tatgtgccat tggttaatta gagttcttat gttgttttag atggctgggt 180  
 ctgctttcct gtttacgaat tatgcgtcgt cgatagggcg tccgtaaggg cgcctctgac 240  
 cacctactgt gtgcttcgct acattttcag cccaccgtgt gccagcccac gcatgcttgt 300  
 ttaaaacgcg cggcgggtgt gcgcgttagt cgttggtttc ttgtgcgctg tgctgccgcg 360  
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<210> 12844  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-A8  
  
 <400> 12844

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 caattttccc tcaatgctca caagctccta tagcttccct tcttccccca taccttccat 180  
 caatgatagc ttcagtatgt gaaaaccag ctcttcagcc ctataggctc caacaagcaa 240  
 tcgcagcaag caacatacct ttatcaccct tggtgtttca acaatcgcca gccctatctt 300  
 tgggtgcagtc attggtacaa accatcaggg cacagcagct gcagcaactc gtgctacctg 360  
 tgatcaacca agtagctctg gcaaaccttt ctccctactc tcagcatcaa caatttcttc 420  
 cattcaacca actg 434

<210> 12845  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-B1  
  
 <400> 12845  
  
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 gggtcatctg ccgcccgcac catgccacta cctactcaa ccgccccggc ctgagcctca 300  
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 aacctgcggc gttggcagca ccccgatcct gggccagtgc gtgcagtttc tgaggcatca 420  
 gtgcagcccc ac 432

<210> 12846  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-020-Q1-K1-B2  
  
 <400> 12846  
  
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 tacttaatcc attggcagcg gctaaccat ttggtcgtac cttgctgcag cagcaacaac 180  
 aattgctgcc atacaaccag ttctatttga tgaacctgg cttgcagcat cccatcgtcg 240  
 gaggtgcat gctttaaatt acatatgaga tgtactcgac aatggtgcc tcataccgac 300  
 atgtgttgac tagaaataat caatatatcg atcgagatgc atctcgatca ataaaaagct 360  
 ttaggaaccc cggtcggngt gtggtgggag ttccgcaagg acggcgacac ccacctactc 420  
 ggcgac 426

<210> 12847



<211> 136  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-C11  
  
 <400> 12847  
  
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<210> 12848  
 <211> 161  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-020-Q1-K1-C8  
  
 <400> 12848  
  
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<210> 12849  
 <211> 527  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12849  
  
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 gtgatggtcg atggactccg gtacgtctgt ggtcgaaagt ctcttcgtgg agcatctact 180  
 actcggactg ttcgacacca taccgcgcgg cgtctgggtg ggtctgtatc agngagactc 240  
 tccatgtctc actcttcgag ggctcagaag ttccagggtc ccatccgcca ttgctcggca 300  
 agtctcgat ctcttccct tccaggtcct gcgagcacct agatcgtcac tcgtcgactt 360  
 gccagccgtc ggggccccag gganggcatg gctcgtcttc gtctctcggt tccattccgc 420

actcggctcc cgtaggagca tccccatcaa ggttctctca gggcatttcc atttgetgcc 480  
ggcaagctgg gtcccttctt cgtgcagnaa tgatcatgtt ccgcctg 527

<210> 12850  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E10

<400> 12850

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taataatact actatgacag agccatgctc tgtgaagagt attagtagca gcgctcataa 180  
aagctacagt tccgtctctt ttctcagcta tgtaaaactt ccaaactgtt catgcttaaa 240  
actgaggggtt ttcttggtgt g 261

<210> 12851  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-E7

<400> 12851

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ttttccctcc ttatgctcct tgctctttct gcatgtgttg ctaacgcgac aattttccct 120  
caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180  
tcagtatgtg aaaaccacgc tcttcaacct tataggctcc aacaagcaat cgcagcaagc 240  
aacatacctt tatcaccctt gtttcaacaa tcgccagccc tatctttggt gcagtcattg 300  
gtacaaacca tcagggcaca gcagctgcag caactcgtgc tacctgtgat caa 353

<210> 12852  
<211> 534  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-E8

<400> 12852

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gtgtttctct caccagttat cttcatatgg cctgtcgaac accgcgagct gtgtcaagtc 120  
ctatgaggct acatacaagg cgattggcgg cgagcgtcgt tacaacaact caattagccc 180  
aattgacaac aactaatcca ttggcacatg ctaacaatac agaaccatgc gcaacgacat 240  
cagcaactaa cagttgcta ctcagctact gagccatcct agccatggnt gaactcctgt 300  
cgtcctacgt tgcaacagtc agctgcttgc tatccaaccg cactttgctt ctagcaagac 360  
gtagattgca aaaccagtca acaaccaaca tactgcaacg agttttctggc cagcgcttag 420  
tcaacttagc catgtgtgaa ccactggccg cctgacctac atacagcaac aacatggctt 480  
tcatnctagt cccgcttccg ttgtgtgcc aatgtaccta catactctgc aaca 534

<210> 12853

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-020-Q1-K1-F10

<400> 12853

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tttttttttt ttgggttttt gttttttttt tttttttttt tttttttttt tttttttttt 120  
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
tttttttttt tttttttttt tttttttttt tttttttttt tataaaaaaa ataaattttt 240  
tnttttaaaa tttaatatata tttttatatt ttataatttt aatttttttt ttttaataat 300  
atattttttt aataatttat ttttatttta tttttttttt 339

<210> 12854

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-020-Q1-K1-F2

<400> 12854

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atgctccttg gtctttctgc aagtgtctgt acggcgacca ttttcccgca atgctcacia 120  
gctcctatag ctccccctct tccccgtac ctctcaccag tgttgtcttc agtatgtgaa 180  
aaccaattc ttcaacctta caggatccaa catgcaattg catcaggcat cttaccttta 240  
tcaccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
ttggcacaaa acatcagggc acaacaactc gtgctagcaa accttgtctgc ctactctcag 360  
caacaacagt tacctttggt gcatttggtg gcacaaaaca tcagggcaca acaactacaa 420  
caactcgtgc tagcaaacct t 441

<210> 12855  
<211> 353  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-G1  
<400> 12855

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aagtataccc tgaggcattt gcagatccag aaggccta atggcagggtg ctaaagtctg 120  
cgtgggatgc tgggtatacaa gtggctagt agaacgctct accttgctat gatagggatg 180  
gattcaacaa gattttggag aatgccaaac ctctgaatga cccagacgga cggcatttgt 240  
taagtttcac ctacctaagg cttggcaaag atctgtttga gagaccaac ttttttgaat 300  
ttgagcgtt catcaagaga atgcatggtg aggcggttct tgatctgcaa gta 353

<210> 12856  
<211> 356  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-020-Q1-K1-G4  
<400> 12856

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gcgactgcga tgacgaggca catgttacgt gatgcgcaac gagttgcaca gatggccgat 120  
gcctgtgata aaccagggtt gtgcgacta ctacgtctgt ctgcctacca ccacatgcct 180

tgctaaggca tgcattggcgg acctgatgct tccagtctac gcttcccatg ccccgagaaa 240  
tagctaccgg tgctatgcgc ttggctagtg tgatgactgc tatcatggga gactcagcag 300  
tgccagctta tatgtgtcta tgatctcgca gccgagcact tggaaatctg ggccca 356

<210> 12857  
<211> 340  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-G6  
  
<400> 12857

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gcccacatt ctgagcttaa gtcaattttg aacaggatgg ataatcatga agcagtgcgt 120  
tcgcttaaga tacttttttt tgggaagtga gattagtgtg tgagggttaga ttttttttca 180  
gtccatcttg agaatgggtct atgcctttat ggtttaggct agcaagtctt agattgggtg 240  
cataaaatta catctctggg tacatgtgag gttgtaaaat cagtatggaa ttatggatga 300  
gtgtaccaac cttaatgtac ccgttcaaga ttatgggtgg 340

<210> 12858  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-020-Q1-K1-H5  
  
<400> 12858

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cattctgcca agctgggggc tgcattcggt gccacgggc tccaccaccg ccgtccgatg 180  
agacatgcta cgaggacctc aagtgttcgg ctctgaggtg ccacctgggt tgcatacaca 240  
ggggctacaa gggtaggggt tcgtactgtc gtgggagggg ctgctgctgc aaacattgat 300  
gcaccgtagt gcatctatgc atttcatgac catacaataa acctagatgt gtatcctttg 360  
cctccgacga ctataaatga aatgaaatac tactaagggt cagc 404

<210> 12859  
 <211> 86  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-A10  
  
 <400> 12859  
  
 ctaaatccat tcttactact ataattatct caaactttct gtacctttac actcattaaa 60  
 ttatgcattc ttaattcaac ccattt 86

<210> 12860  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B1  
  
 <400> 12860  
  
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 tcctcgtccc agacaagcca atcggagccg gggtagcacc atggactcca ccggcaccgg 120  
 agcaggggggt aaggggaaga agggagcggc cgggcgcaag gtcggcgggc caaggaagaa 180  
 gtcggtgtcg aggtccgtga aggccggtct ccagttcccc gtcggccgca tcgggcgcta 240  
 cttgaagaag ggccgctacg cgcaacgtgt cggcaccggc gccccgtct acctcgccgc 300  
 tgtcctcgaa tacctcgccg ctgaggttct ggagctcgcc ggtaatgctg ccagggacaa 360  
 caagaagact cgcattattc cgcgccacgt gcttcttggc gatccggaac gacgaggagc 420  
 ttgggaagct gttgggc 437

<210> 12861  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-B7  
  
 <400> 12861  
  
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 ccgtcgggcg tttataggtt gaggcatttt ggtgcctgca aaccactgat tgggtccatc 120  
 aaacattgta ctgggacctc tatggcgttc gcagtgcgtt aggtagcaca ccagtgcgtt 180

gcgttgcgtt cgacggcaca cctgtcagag aatcgacacc gggtcataata cttactttgc 240  
 atacctgccca cagtatatgg acatgttttg cctatagtta ctaaaaagat gaat 294

<210> 12862  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C6

<400> 12862

tgtttttttt tttttttttt tttttttata tgcaatgcaa tgattggata tatacagggg 60  
 tcacaaaaag aattggcgta caaaccacac acacctaata gattctcctg cacaaggct 120  
 gttgcattca gcaacctgta cactttatct attcctcgtc gggaatcagt cgtcctcctc 180  
 cggcgaggag aagaacgacg acgacgagct gaccgagagg gacctatggt gtacacttca 240  
 ttattcctcg tcggcaatca gtgactcgtc ctccttcgac gaggaggagg agaaggacga 300  
 ggacgaggac gacgagctga ccgagagcga cctccggtag gtgtacagaa ccgcgtcggg 360  
 cac 363

<210> 12863  
 <211> 146  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-C9

<400> 12863

cccacgcgtc cgctcaatgt ttgttggtg aacagagata cgcgtttgaa tttggcgtaa 60  
 agcgaactgt tgtcttcttt ttcccttccc ctctctctct atctccagtc atcggttaata 120  
 ggacaagtac ctttccttat tccatc 146

<210> 12864  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-021-Q1-K1-D5

<400> 12864

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tggtaaggtn nctgttatgc atggtntttg aacccannta gcaatgtggg cggagcgtnn 120

gtgtaaana ctgtcagtat gatcggaatt ccaactannt tcatcannac cgaaatnnta 180

tggcgcgcct tcannatcgt ggctaccgcc ctgatgggga cccctgannt ccgttatnng 240

gtgtnnngctt gaannntcgt ggctttgtgg agaaaatgtg tggaaacttc aaattggctt 300

aaagttnngt gcttntnnat taactaatgn nngtgatgct ngnnatggaa ctngnnattt 360

tg 362

<210> 12865

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E10

<400> 12865

tgagggaggt gatgatgcac attccgtaga ttatgagagc agcgaacaga gttgggacct 60

gaggtcttta tctgaatcaa ctatagcatg tgttactagt gattacgcga tgcaaaacgt 120

catcctgcag attggcctcc ggctcatagc accgggtggc atgcagatac gccagatgca 180

taggtgggtt ttgaggtgcc atgcttgcta taaggtgacc caagagggtt gcaaaatatt 240

ttgtccgaag tgtggcaatg gtggcacctt aaggaaggte tcagtaacag ttggtgaaaa 300

tgggatcact atggcttcac ggcgccacg tgttacactt tgaggcacia aattt 355

<210> 12866

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-E5

<400> 12866

cttgttcttt gggattggag ctttgaaga gaagattgga ggagaggaga ggatcggaag 60

aagctggtcg tgttcttctc ccttattggg cgcgcgtgtt gtgttgtgcy ctgctgtgcy 120

tgtgtactcc agctgtagct gctgctgtgc ctagctgatt gaagttggaa ctgtagtggg 180



tccacagtat tatgcatggt ttgtttggtg agacgtcaaa g 221

<210> 12867  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-F6

<400> 12867

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agcatcatgg ccaggccagg cggccagcag ccggcggaga tggagaggaa gaaggacagc 180  
ggtgtcttct tcggtggggg ctgcggcttc cggatgccgc tgcactaccc gcgctacaag 240  
aaggcggact acgagagcat gccggagtgg cgcgtcgact gcctgctccg cgagtacggc 300  
cttcccgcgc acggcgacgt cgacagcaag cgccgcttcg ccatggggcg cttcctctgg 360  
cccgaccagt actgatccaa ccaaacaag ctcagcgcta gctagctgcg tgccggccgt 420  
gatctcgtca tatttagagg 440

<210> 12868  
<211> 274  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G2

<400> 12868

aaggaagcga gaagaccaga aggtgataag agagagagag agtgtgtgtg atcggtgcaa 60  
ggatcaccgc tgtgcctgcg cgtgctgctt caccgaatcg agtcagatcc tgtccgaatc 120  
cgagctaagg gatggcaacc ggtagtgaag cctcgaaggc agctgaggct gtggttgact 180  
ggcataaaca cgacagcaag aggatgctcc atgcggttta ccgtgttggg gatctggacc 240  
gcacaatcaa gtactacacg gaatgctttg ggat 274

<210> 12869  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G4

<400> 12869

ttgagaccaa caagcaacat agaaagtgga atccagtagc aacaatagag caacagtgga 60  
gaccaagata ttttccctcc ttatgctcct tgctctttct acatgtgttg ctaacgcgac 120  
aattttccct caatgctcac aagctcctat agcttccctt tttcccccac accttccatc 180  
aattatagct tcagtatgtg aaaaccagc tcttcaacca tataggcttc aacaagcaat 240  
cgcagcaagc aacatacctt tatcgccctt gttgtgtcaa caatcgccag ccttatcttt 300  
gggtgcagtca ttggtacaaa ccatcagggc acaacagctg cagcaactcg tgctacctgt 360  
gatcaaccaa gtagctctgg caaacctttc tccctac 397

<210> 12870

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G6

<400> 12870

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tcactgaggt gcttgctaag atctgggaga gactcaaaga agtgggagag aaatttgaag 120  
ttgtagctgt atccttggac agtgaagagt catcatttaa tgagagtttt gcaaagatgc 180  
cttggcttgc aattcctcaa ggtgacatta agtgtcagac gctggttcgt tactttgagc 240  
ttagttctct tccaacacta gttctgattg gccctgatgg gaagacactg aacaacaatg 300  
tcggcgacat aattgacg 318

<210> 12871

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-021-Q1-K1-G8

<400> 12871

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ttgtccaaga gtgactgctt tatgcaagat tcttttgtcc aaggggtttg tagttctcta 120

ttgttagtat caccttataa gatgttttag tttttctaaa ttttttttta ctacacatct 180  
aaacataatg tacaagttac acaatacaag agtgactgct ttatgcaaga ttcttttgct 240  
c 241

<210> 12872  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-021-Q1-K1-H1  
<400> 12872

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tcagatgctc aacaagaagc atacggtagc gcatacttgg cacatctgaa gtaggtgcag 120  
attggtgcat aaaaggcatc caggacatca gtagttatag catcctctca catctgacgc 180  
tttcaaaatg tcatctcccc atagttagaa cgaattcatc tcaagactgt aggtcctctg 240  
cttgagaagc atcctcaccg ctgtcctata cggctcctcg aatgcatcca acaccaggc 300  
tgcaccagca gccccattcc aaactgtgtc cctgttctct tcctcacttg gcttgatggc 360  
cacaagcgtt gcgccattta gcaccagccc cccaggcagc tcaatacatg gtgcgtacca 420  
cagtcacatg ctaagctctg gcatgagcg 449

<210> 12873  
<211> 273  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-021-Q1-K1-H2  
<400> 12873

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tggtgaatcc aagaaaccaa ttgttgtaga gtatggcctt aaccatgtga cttacctcat 120  
tgagcagaac aaggctcagc tcgttgatcat cgcctcatgat gtggatccga ttgaactggg 180  
tgtttggtt tcagccctgt gcaggaagat ggaagtccca tactgcattg ttaaaagaaa 240  
ggctcgctt ggatcgatcg ttcacaagaa gac 273

<210> 12874

<211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-021-Q1-K1-H7  
  
 <400> 12874  
  
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 gctaggaaca ctgatcaatg gctacgggtca tatgttccat cttctcaciaa ggttaatata 120  
 agctgtcaca tcatccctat caagcagcat atgataaaac agtaagacat cctcgccgga 180  
 tggataatga acgaaacaac tacatggaga gccaaagtgg catacgtgat aataaccctg 240  
 aaaacgggtgc tgcaacctcc atgtgaacat gcattgcaac aagacttggt caatagacta 300  
 ctttggactt ttggtgaacg ctgcatgtac attctgttta caccctttca cagtgaactt 360

<210> 12875  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-A12  
  
 <400> 12875  
  
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 ctattttgca cccagtgtga gaccaaacca gctgctttct gtaactattg tcgttcaagt 180  
 gatcattcca cccaccgtgt aatccagata aggcgttcat cgtaccatga cgttgtgagg 240  
 gtgtccgaga ttgaggatat ccttgatgtc agcgatgtgc aaacttatgt aatcaatagt 300  
 gcaaggattg tattcctgaa tgagcggcca caactgcgtg cttctagtgt cccattttgt 360  
 aaggcaccca catcatcaac acatagctgt gagacatgta accgtgtgct acttgatgca 420  
 tttcgcttc 429

<210> 12876  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-D1

<400> 12876

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aagagagatg gagttgaagg agaaatttgt aatgaatggt caagaggtag ctgagaagtt 180  
gcaaaacaca tacttatatt tgaagaactt ataggtgaac atatttgatg ataaattgctg 240  
tgagctcttt gatgattatg gtaatattac ttttctgcaa tgttatgctg aattctaattg 300  
gggttatcag aggttctgga tttgttgctt tcaaactctgc tgaatatgct aaccgagc 358

<210> 12877

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-D7

<400> 12877

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ttggcgctcat gtgtttggca acgagccgga aagatggtag tccttagaat cgatcggttc 120  
ctgagcgagc tgacgtgcat gttctagcgg agcacggaga agggctacgt atggatgacc 180  
atgtagcgag caagtctcga gggcgaggca cagttgcgtt gagatggaga ataatgatca 240  
ggaggttttag ctcaattgag tgattcgcgc ctccaatggc aagaagaata ttttcagctt 300  
ggtttctcta attgagtaca caaagtttca agcttcatac gcaacagttc tta 353

<210> 12878

<211> 531

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-022-Q1-K1-E11

<400> 12878

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gggacgcttg tcggcgagct gccttacaac aacgcaattg cgccaattgc taacaacaca 120  
tccttggcac aaatctaacc ctacaaactc attgcaactg cacaacaaca acaacnagtt 180  
tctgccatca cttgagnctc acctagccgt ggtgaacacc tgtcanccta cttgcaacna 240

gcagctgctt gcattccaac ccacttgctc ttggcgaacg tagctgcatt accagcaact 300  
aacaaccagc ttgcaacagt ttaatgccag tgctcaagtc aactagctca tggatgaactc 360  
ctgccgtcta cctttacaac tactttcann tctagcccg c tttcgcggtg ggcaaatgca 420  
acctaacgta cctatncaac aacagttgct tgcaacccaa ttgtaccaag ctctgactca 480  
gnctagcttg tggcaaaaacc ctgcttgctt acttacaaca agttgctttc a 531

<210> 12879  
<211> 145  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-E2

<400> 12879

agaaaaaaaa aataaaaaaaaa aaaatattaa aaatgaaaaa aatgaagaaa aaaaaaaga 60  
ggaagggcag acgatctaga ggatccagga ttacgtacgc ctgcatgcga cgtaataaaa 120  
attcaatagg gacaccgaaa ttcaa 145

<210> 12880  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F12

<400> 12880

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gaaagctaaa agagggcgcc cccactggtg cgaagcagcg tacgcgtggt tcgtacagga 120  
aattccggac cggttccagg aggcgtgcc a gcaattccta tagtgagacg aataacacac 180  
aaaactgcaa aactataagg ttgctatcta tcttagtata acactactac tactacaaac 240  
aatccctcta 250

<210> 12881  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-F5

<400> 12881

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aagcttgata gcacaaaatg gtgttggttat atttccaatt atatttgaag ctgttgagag 120  
gaatatacag agccactgga atcaagcagt ttatgggtctc actgcagagg tgcgcaagat 180  
gttattggac attgacagtg aactatttga agagtgccag cagcagtaca tggagaaaca 240  
agcgaaagcc aaagagatac atgaacaacg agaatcagca aggagacaat tggaagctgt 300  
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<210> 12882

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G1

<400> 12882

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aaggagagag agagagagcg agagagagat ctagtagaga ggctagtagg tggtccttga 120  
acgaagatgt tggcgggtgtt cagcgggcat gtggtggagg tgccgggttga tctggtggct 180  
gagggcagtc ggacgccgtc gtccaatacg aaggcgtggc atctggtggg gcgctttctg 240  
gccgtgtccg atccggccgt gttcgagcag atcggcgacc actatcacct cgcctactcc 300  
cacaccaacc aggcgc 316

<210> 12883

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-G5

<400> 12883

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taaattgcaa ggccaagcag atcgcgtcca caagccata 159

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G6  
  
 <400> 12884  
  
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 aaaataaaaa aaaaaaaaaat taaaaaaaaa aaaagagaaa aaaaaaaaaat aaaaaataa 120  
 atatacataa g 131

<210> 12885  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-G7  
  
 <400> 12885  
  
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 gcaagggacg ggagaggaac ccgaggaagg cgaaaatgat ctaccgcaac tggtcgctgc 180  
 tctcgtccac gagcgtgatt tgggatagag tggtcaccgt cggcctagtc gggatcttgc 240  
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<210> 12886  
 <211> 167  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-022-Q1-K1-H2  
  
 <400> 12886  
  
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 aagtgtatt acggcgacca tcttgcagga ttgcacgcat gctccta 167



<210> 12887  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-022-Q1-K1-H4

<400> 12887

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 tgtttcagaa ggcctatcgg actgccccct cgatttgttg tatggatgag atagatgcga 180  
 ttgcatccaa gagggagaat ctacaacgag agatggaact gctgatagtt actcaattaa 240  
 tgacatgcat ggatcaattc caccagaata ttggatcggg aagtaacaat ttggaagctg 300  
 aatcatctga aaagaaacct ggttatgtta ttgtcattgg agccacaaat aagcctgatg 360  
 ctgtgatcca agctctgcga 380

<210> 12888  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-A10

<400> 12888

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 gacagagcta aatgtacgaa gtctaaatta atttcctgag gtagtggagt tatattggag 180  
 tcatattgga actttaagac aagtgggctg cctgtgcgag tgcttttcta ccaacatggg 240  
 aactgtgatg attttccaaa ggatgttgta aatcaagccc aacagg 286

<210> 12889  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-B8

<400> 12889

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 ttgatcgtec ctttcttgcg tttgggggaa accatcactg gcagtgggca cttcccccttg 180  
 acagccaacg cactgaagaa tgttctcact ggtcatgcat caaaggatgt gctgctgagc 240  
 atcgtcaatg cgatgctggg ttggcttatt gctgcaccat ttgtacttgc cgtgctgtac 300  
 gctggttcgt tcccttggtt caaggctctg gttaacaggt ttggcggcat tccatcgagc 360  
 cccaggaccc cactcaaagc ggtgtaagta gtgtgtagca tgctgaatgc tc 412

<210> 12890  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-023-Q1-K1-D11

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 ctgggcgtgt tcatgtgcta gattcgtttg aaggaaacag cattgcatcg tttcgcgcga 180  
 agccaatatt aaccaattcg aactggagg catcgttctg tcccgaggga aaccatattg 240  
 tatctggctc cggtgatggt agtgtctatg cttggaacgt tgagagcgga aaggttgcac 300  
 gctgggaaag cacagatgtg aaaccgccgc gggtgaagtg gtctccagga tccttgatgt 360  
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<210> 12891  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-D4

<400> 12891  
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 ggagtctgtg ctgcggaagc gcaagcggga ggagcaatgg gcagcggaca agaaggagaa 180

ggcgctcgcg gacaggaaga aggcgctcga gagccgcaag atcatcttcg cccgcgccaa 240  
gcagtacgcc gaggagtacc acgcccagga gaaggagctt gtgcagctca agcgtgagggc 300  
ccggttgaag ggtgggttct atgtgagccc agaggccaag cttctgtttg tggttcgcat 360  
ccgtggtatc aatgccatgc accccaag 388

<210> 12892

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E10

<400> 12892

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gcatggcgga cgagaagggc gcgcagcagt ccgataggga gtgggtgggc gaccacaagc 120  
tccaggccgt cgggacgctg tggctcaacg gcacgtcttg cttgatcgcc tacgacagga 180  
tcaagccgtg catgatgacc aacgtcaaga tcattccacgc caggctgcat gctcaggctc 240  
tcacgctggc tgccttggct gggtcgcgc tggtggagta ctacgaccac cagcaagggt 300  
caggatcgaa agttcaccaa tatgcaaagc agttcctttc atctgatagc aata 354

<210> 12893

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-E7

<400> 12893

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tgaaatggct cctaaagctg ctcttgccaa gaagggtgat gccaagaccc aggccttgaa 120  
ggttgccaag gctgtgaagt ctggggcagc caagaagaag accaagaaga tccgaacgtc 180  
tgtgacattt aaccgccc aaacccctgaa gaaggctagg gaccccaagt acccacgaat 240  
cagcactacc ggaaggacca ggcttgatca gtaccaaatt ctcaagtacc cctttaccac 300  
agaatcagcg atgaagagat tgaaga 326

<210> 12894

<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 12894

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gcagcaacaa ctattaccat ttagccagct atctactgcc tactctcaac aacaacaact  120
tcttccattt aaccaattgg ccgaactgaa cctgtctgct tatttgcagc agcaaatact  180
actaccattt agccagctag ctacagcaag ccgtgcttcc ttcttgacac aacaacagtt  240
gctgccgttc taccagcagt ttgctggctaa ccccgcaacc ctettacaac tacaacaatt  300
gttgcccttt gtccaacttg ctttgacaaa ccagcagcc ttctaccaac aacacatcat  360
tggtggtgcc ctcttttaga ttgcttatta gatgtaattc aataataaag ttttttggtat  420
gatgtatgt                                     429
  
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<210> 12895  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-023-Q1-K1-G1  
  
 <400> 12895

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accggcaagg tccgactcgt catgcgccag gccaaagacgc ttaagatctg cgcgaaccac  120
ctcgtggccc ccaccacgag aatgcaggaa catgccggca gcgacaaatc gtgcgtctgg  180
cacgcttctg actttgcgga tggcgaactc aaggaggaga tgtttgccat caggtttggt  240
tcggtagaaa actgcaagaa gttcaaggag ttggttgaag agattgctga gtcacttaca  300
gagaacgagg acaaggaagg tcaagatggc tcttccacgg ccggattgct ggagaagctc  360
actgtgagcg agggcaaatc                                     380
  
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<210> 12896  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-G12

<400> 12896

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tgatgttcat ggaatcactt ggaccacggc acgctaata tataacttgg tcttcttttg 120  
aaaagcacat gcttaccact aatatcataa aacgagccaa gacgattgcc tttaaatg 178

<210> 12897

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-023-Q1-K1-G2

<400> 12897

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tgctccagcc aaggaggggc cacaagggtc cgactcgtga tgcaccaggc caagacaccg 120  
aacagatcga cggagtactt gtcctctcca tcgagaagct ccaggagata caggacgagc 180  
tcgagaaggt aaatgaggaa gcaagtgaca aggttatgga ggtggagcag aaatacagtg 240  
agatccgcag acctgtctat ctcaaggagg gtgacattat caagaccatc ccggactttt 300  
ggctcacagc gtttatgagc catcctctat taagtgagct tctgactgaa gaaggaccag 360  
agatattcaa gtacttagac tccattgatg tggatgattc tgatgttaag gcaggatact 420  
ccattcatct taacttctct gagaa 445

<210> 12898

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-023-Q1-K1-H1

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gacaaattga actttcatcg gcgcaaaaaa tcaactgggca tgcattgttc atccatccat 180

ccatggtcct cgggtccaaca ctgaatctat ctatctcgcg gtttcgccgc cagagaagca 240  
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<210> 12899  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-B1

<400> 12899

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 ttgctgccat gtgcttgcaa gagcaagctg ctacacgccc tcacatcggg gatgttgtca 180  
 ctgctctctc atatctcgct tctcaggctt atgacccaaa cgccccgtgt caacacagcc 240  
 ggagcaacgc atctaccccc aggtccagaa accctgctgc atggaacggg gatcagcgca 300  
 gtgtgcgctc gcctaatacat caccattctc cagaccgcgc gcggagggac cctgccaggg 360  
 catccaagta tggagcagag gttagcagga ctagctctgc cagegattct ggccggcggt 420  
 caggtctgga tgacat 436

<210> 12900  
 <211> 179  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-024-Q1-K1-B12

<400> 12900

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 ggctctnaca acaatnnacc tctcnntccg gtgaccagcn ncgcgagaat nnttgaata 179

<210> 12901  
 <211> 219  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D10

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 ggaaggggct gtcttccaag ttattgtctg atatggaatt gttccagatt atcatgtctc 180  
 ggcgtttacc cattattatt atttgatttg aaccttaaa 219

<210> 12902  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D2

<400> 12902  
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 ccatctgtat ggtcgtctggg agatctatct tgacctcctt tttctgttct ttttggctctt 180  
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<210> 12903  
 <211> 70  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-D6

<400> 12903  
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<210> 12904  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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caagtacgcy ctcatcttca cctccagccc cgtcgtcctc gacgcgctcg accacctctc 240

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cgtcgggtcc ggctggcaat ccatgggtggc ctacgtcaac atcggtgtgt actacctcat 360

cggaatcccc atgggcatcc tgctcggatg gctattcaac cttggcgtgc tggggatctg 420

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<210> 12905

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E4

<400> 12905

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atgttttcga aaagattatg atctgtatct tggaacctta tttcaatgga ccaaatttct 120

ttctttgcc aaaaaaaaaat ttggtggatt gacgttctgg aggatgcaag atatcgtacg 180

cttgcattga acgtaataat tctactatag gggcacctac attgaatt 228

<210> 12906

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-024-Q1-K1-E8

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cggcgcgccc gctgcacacg gtgatcggct cctccggggg agattatgtg atggtgataa 180

gctatgggcy gcccaagtcc gcgtcctgtt aaaaccatat caccatcgac ggcttggcga 240



ggtcgattcc tagttcgaac aagggttggt gccgccgccg ctgccgcgcg cggggaagag 300  
gccgtcgaca gataaactca agcagcggta ggggctgct ctgccgcagc aactcgtcct 360  
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<210> 12907  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-F1  
<400> 12907

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cctgcgggat cagctcctgc ggcagctgct cctgcggatg aagctgagga tgatgatgac 180  
cttgatcttt ttggtgatga aactgangag gacaagaagg cagctgatga gcgtgctgcc 240  
gctgccaagg cctcttctaa aaagaaagaa agtggtaaat cctccgtcct tatggatgta 300  
aaaccatggg acgatgagac tgatatgaag aagctggagg aggctgtccg cagtgtccag 360  
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<210> 12908  
<211> 389  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-024-Q1-K1-G7  
<400> 12908

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agcactgaag cacagaatca taaacatgca tgcagccgga gcgctatcat ggccatggtc 180  
aaggcttgat taccgcaatt cctttccata cgttgttcga ggcctaacac atgctttcgc 240  
ttcattgcac tctaacagtt gatcgctccc ttgacatttt aaaccgacac gacaacctaa 300

taacgccaat tacgtttact gcatttcatt tgaccagcta tgggatacca aacgactatc 360  
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<210> 12909  
<211> 390  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-H12

<400> 12909

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aagatggatg ttaacgacca tgccgatcac caaggctcca aagccagtgg aatgccaaacc 180  
aagacagatg ctaatgatca atgcagcaac caaggttttg ttacatgtcc ctttaagaca 240  
gctgagaggt tagatcatct tctgaaccaa ccagcaaaca gatactgtgc tgattgtggt 300  
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<210> 12910  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-024-Q1-K1-H5

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taagatttgt tctttgtggt ggtgcacctc tgtcaagtga cacacaaaga tttatgaata 180  
tatgtctagg tgtcccagtc ggtcaaggct atggattgac tgaaacttgt gctggagcag 240  
ctttcactga atgggatgat acaagtgtgg gtcgtgttgg tccaccactt ccttgctgct 300  
atgtgaagct tgtctcatgg gaagaagggt gttacaagat ttctgattct ccaatgccga 360  
gaggagaggt cgtggttgggt ggacacagta taacanaagg ttatttcaac aatgaagcaa 420

ag

422

<210> 12911  
<211> 289  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-024-Q1-K1-H7  
  
<400> 12911

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atgctcctat gacttccaac accagggcct ttgtcctcgc ccaccccggt caagctatac 180  
accgactact atgaacatat gcctaagctt cacagtcagc ccaacttata catgaacagc 240  
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<210> 12912  
<211> 237  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-025-Q1-K1-A7  
  
<400> 12912

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ctggtttcac caaaccaaaa gacaacatac tctgttgaca gacacgaaac tggttccaca 180  
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<213> Zea mays  
  
<223> Clone ID: LIB3059-025-Q1-K1-A8  
  
<400> 12913

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ggtcatgcct attggccgat gtcccatgg tgtcttcgat gcgtgcggta ctacaccggt 180  
 tgggctgact agatccactg cctgattgca ccagtcgacg gcgcgcacca cgttcttctg 240  
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 ttcgactcga aggtcattc 319

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 <213> Zea mays  
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 gggaagacag caggagccgc agccgcagcc catccggtgg taaccgcaac cctgcagcta 180  
 atgggcgtag cccgagcccc aaaggtgacc gtggcccgag ccccatggct gaccgtagcc 240  
 cgagcccaaa gggcaatggt aacaacgatg gtgggtgatga tgatactggc cgtgggtggtt 300  
 tccccacagc aagcaagtca ccctgaacgc ttcaccgtct caattcttag gtgcttcgtg 360  
 atgcattggg caaacatacc aaaaacgttg atagctgttt cgtttccctt atttgaaacc 420  
 ttggacttaa tttaactt 438

<210> 12915  
 <211> 214  
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 <213> Zea mays  
 <223> Clone ID: LIB3059-025-Q1-K1-B6  
 <400> 12915

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 tgattcgtgt tacacgtgct atgttctgag attcatgatt aaaaataaaa aacaaaaaaa 120  
 aaataaaagg gcttaagctc taaatgatcc atactttagt acgcactcat gctactactt 180  
 aagtcttcta tagtgacaac taaatatcaa tgct 214

<210> 12916  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C4

<400> 12916

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gaggaacccg ccacagccag caccgccaggc tcctcctcca gtcctgttgc gagatgggtgg 180
tggtccatg tttggaggaa ttgggtccac cattgctcaa ggtatggcgt ttggcacggg 240
tagtgccatg gcacacaggg ctgttgactc tgtattaggt ccccggaacca tccagcatga 300
gactcttgcc acagaagctc ctgctgctgc ccctgctgct ccagcgatga atgctgatgc 360
ttgcagcttc cattctaagg ctttccaaga ttgtctcaac aactatggca gcgagatc 418
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<210> 12917  
 <211> 467  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-C7

<400> 12917

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tgtgcgcagc cccgtccgtg atgctgtcga cgcgtggcta gtggtcgacg ccgcgcttcg 120
cgttttgccc gttcaacaaa acaccgagct gtgtggacaa cctatgtgac tagtctcggt 180
tcgtccagga ccgagagatg acgaccgtgc aagtgatgtg gtgccaacca caagatgcag 240
ttggtggacg acctgaagaa tggacttaac cagtggatgc tcgccaagcg agtaccctac 300
cacagcaaac actatctaag tgttaaatta aaggtaactt ttaggatgat tggttgctgg 360
tgtgacttgg ctttcatccc tgccaccggg atagatggtc gagtgggtta ttgcttccgc 420
aggagaggac caggaggagt agcgtggcta ggcttcgcca tggttact 467
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<210> 12918  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D1

<400> 12918

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tatgtctgact acatcttcgg caacgaaact gaggcaaaga tctttgccaa agtcagagga 180  
tgggagactg agaattattga ggagattgct ttgaagatct ctcaacttcc tttggcttca 240  
ggcaagcaaa agaggattgc tgtgattact caagggtctg atccagtggg tgttgctgag 300  
gatgggaagg tgaaaacgtt ccctgtgatc ctattgccca aggagaagct tgttgacacc 360  
aacggcgcaa gtgatgcttt cggtggaggc ttcctctcac agttggttct aggcaagggc 420  
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<210> 12919

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D10

<400> 12919

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acagcttcat caacacatcc tgcgggaagg tcaagatatt ggaacctcct taaggcttct 120  
tgatgaatta tgaatgt 137

<210> 12920

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D11

<400> 12920

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gccatgtgca acaacacgaa cagagccatg agcaacacca aggacagagc catgagcaac 180  
aacatcaaca acaattccag ggtcatgaca agcagcaaca accacaacag cctcagcaat 240

atcagcaggg ccaggaaaaa tcacaacagc aacaatgtca ttgccaggag cagcaacaga 300  
ctacaaggtg cagctataac tactatagca gtagctcaaa tctaaaaaat tgtcatgaat 360  
tcctaaggca gcagtgcagc ccttttggtaa tgccttttct ccaatcacgt ttgatacaac 420  
caagtag 427

<210> 12921  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-D12  
<400> 12921

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tttttttttt tttttttttc atgggtttgt tttctctttt gtttatattt ctatatattaa 120  
atattttctaa aaaaacaacc aacccttttt aagaaccaa atttactaca ttaatcttaa 180  
aaaataaaat gaacctataa gggtacccaa attcaattca attagccatc atactaaaaa 240  
actattgact taaaaaacc taaactaacc caacataatc acctttttaa acatatcaca 300  
ttaaaaaact atttgaaacc caaaaagccc caaccaaag ccatttccaa tcattaaaca 360  
acactaatte tgaaaggagc catccctata tcccttcata aa 402

<210> 12922  
<211> 470  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-025-Q1-K1-D6  
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atccgggtta gagaggaaga aattgcaacc gaaacaatgg cggcagattc cggcgctcgc 180  
agacaaccaa gttcaccaa ggctgaccag ctgcgcctg gaaccacgg ccacaacctc 240  
atcctcaagg ttgttgactc caagatggtc gtccagagag gccgagaggg agggccccag 300  
ggaagacaga tgaggattgc ggagtgcttg gttggtgatg aaaccggcat cattgtcttc 360

actgcaagaa acgatcaagt ggatgtaatt aggcctggaa caactgttga actgaggaac 420  
gcaaagatcg acatgttcaa gggttcgatg cggcttgacg tggacaagtg 470

<210> 12923  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-D8

<400> 12923

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ctgccgatcg gggcaatgct attctgggaa atgctatgct tgcacttgta ataactgccg 180  
cttctctgac tgagcttcgt ttgcagctgc tggacttcaa tcatgccgct tctctgtgat 240  
tgagcttcgc ttcctttttg ctgcagctac ttttcgtcgt acaagtgggt accaacagct 300  
gcagtagatt tgggtgggtgt ttgcattcta agtactcatg gttagacgcc ttatctgaca 360  
cttttataat gatc 374

<210> 12924  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E4

<400> 12924

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ttgatataac agaggatgga tttgtgagcc ttcttacttc agatggcaac actaaggatg 180  
atcttagact cccaactgat gagactcttg tggcccagat caaggaaggg tttgaaagtg 240  
gcaaggatct tgttgtgact gtccagtctg ctatggggga ggagcagatc tgcgcgctga 300  
aggatgttgg cccaagtaa cttccctgcc ttggaatact gtatctcaaa acctaaatcg 360  
aaaaaagaag tgtatcaagg attgctacag agacatccat ctggcttgag ctggcttttg 420  
ctatgtcaaa cacaagtga gggatcgctg ggtgttgac cgtgt 465



<210> 12925  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E5

<400> 12925

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 gatcccaagt tcaacattgt ctcccctgga gcagacatga gtgtttacta cccgtatacg 180  
 gaaaccgaca agagactcac tgccttccat cctgaaatcg aggagctcat ctacagcgac 240  
 gtccagaact ccgagcaciaa gttcgtgctg aaggacaaga agaagccgat catcttctcg 300  
 atggcgcgctc tcgaccgcgt gaagaacatg aca 333

<210> 12926  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E6

<400> 12926

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 gtgtatgggtg gagatggaat tggccgactc caagaaagac cttaaagact acgatttctg 180  
 atgagggttac ctggaagttc ctttgacatg ctatcttgta tttgggcact aatgttgtct 240  
 gtctaagtgt tttctaccac ccaatcttat ccaagatggg taacaagggg tgcacatggc 300  
 atgaagttgt ttccaatccg tttttatatt aacgaggaag tgatgagtga ggcacatggg 360  
 cgctttctga tgctgtatac gaattattag aatgagatgg tttagccaca tctttgaact 420  
 gagggtagaa cctg 434

<210> 12927  
 <211> 232  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E7

<400> 12927

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ccacagagca ttacttgctc catagctgca caggcttcca aaatctactc ctactcagtt 180  
acattcaatg tcatcaggaa cattcatcac gtgcaagcac tacacagcta ct 232

<210> 12928

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-E8

<400> 12928

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atcaaactat ggatttagga gccctgttac ttcagatggc aacactaacg atgatcttac 180  
tactaccaac tgatgacact cttgtggacc atatcaacga agggttttta agtggcaaag 240  
atcttgatgg gactgtacaa tctactattg ttgaagatca aatatgcgcg ctgaacgatg 300  
ttggccacaa gtaacttccc tgtcttgga tactgcatct gaaaacctaa atcgaacaaa 360  
taagtgtatc aatgattgct acagagacat acatatggct tgagctgcct gttgctatgt 420  
caaacacaag tgcaaggatc gctgggtggt gcac 454

<210> 12929

<211> 405

<212> DNA

<213> Zea mays

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<400> 12929

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atggcaggag cgaggagttc taccgtcttc cttatggctt gagcaggtac tccccctcgc 120  
tctaggacgc cgggaggaag acgacggacc caagttctat gtagctgctc gagcgtagaa 180

gctgaacatc agttgaaggc aacagaacca tatgttattt tcatatatca agcagttggg 240  
 agggagcttg atgttttgat ttaccttgta aaacattttg gatgataaac ttttgcaatt 300  
 actgggagag taggatcaac caggggagaa ttctgcaaca attcagtcac cgtttttgct 360  
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<210> 12930

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G5

<400> 12930

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 attattccac aatgctcact tgctcctagt gccattatc cacagttcct ccctccagtt 180  
 acttcaatgg gcttcgaaca cccagctgtg caagcttaca ggctacaaca agcgcttgcg 240  
 gcgagcgtct tacaacaacc aattgcccaa ttacaacacc aatccttggc acatctaacc 300  
 atacaaacca tcgaaacgca acagcaacaa caatttgtac cagcactgag ccaactagct 360  
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<210> 12931

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-G8

<400> 12931

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 tcgtgctctg ctgaatgggt cacaaaagtt gcttgggtatc ttgatcgcta ttggggaagc 180  
 tgtggcatat gtctgtctg gaatgtatgg tactgtaagc caacttgga caggtaatgc 240  
 tattctcatt atacttcagc ttttctttgc tggcatcatt gtcctctgct tggatgaact 300

ttttcagaaa gggttatgggtt tgggatctgg tatctttctg atcattgcta ccaatatctg 360  
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<210> 12932  
 <211> 157  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H10

<400> 12932

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 atattttcta tactcatacc tatgacatta attttac 157

<210> 12933  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H11

<400> 12933

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 gagcgcaaca aatgcgtcca ttattccaca atgctcactt gctcctagtt ccattattcc 180  
 acagttcctc ccaccagtta cttcaatggc cttcgaacac ccagctgtgc aagcctatat 240  
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 atccttggca catctaac 318

<210> 12934  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-025-Q1-K1-H7

<400> 12934

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 gaatccagag atgatgatct tgatgctgac ttttcacaac gcaagtctgg gcaaagtagt 240  
 tcaaggcagc acgcttctag gccggaagcc tcgcctttgg actttgtcat tcgtccacag 300  
 tccaaaattg accctgagca gatacgggct cgtgctaagc aggctgtcca agaccagcgt 360  
 cggtgaaga tgaacaagaa attgcagcag ctgaaagcgc ccaagaagaa aaaccttcag 420  
 gcgtcgaagc tc 432

<210> 12935  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-026-Q1-K1-A3  
  
 <400> 12935

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 aagaatcggg ttttcacata ccgaagacac cgctggtgag aggtacggtg gaagaaggga 180  
 agctatagga gcttgtgagc attgcgggaa aatggctcgc gtagcagcac ttgcacaaag 240  
 accaaggagc ataaggaggc aaaatatattt ggctgccatt gttggtacac tattgcgctt 300  
 tctatgttgc ta 312

<210> 12936  
 <211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B10  
  
 <400> 12936

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 aacaaacgac atgtatacac caaacgcgag ctgactcatg gccagtacca cacaaaagg 180

atagcatcca agaagccgta ctatcgatcat ttactaatac acagaggata acaggaatag 240  
 attttatcat aagcgccctca tcacactaac taagggttgtc actgacaatc cacatcagat 300  
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<210> 12937  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gccttttttac ttcaagattg gggnccttgtc gtcattgggga tcgctgttct cgtctgcaca 180  
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 taactcctgg agttgatgct caaggccaac ctattgatcc tgagaagatg caggagcatt 300  
 ttgaggactt ctatgaggac atctatgagg agttgggcaa gtttggtgag attgagaatc 360  
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 aggaagaaca ggcagctgca gcatacaatg ct 452

<210> 12938  
 <211> 223  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 12938

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 cagagacccc actcagaata ctaagcctac tcttacacct ccaagaccta cacaacctg 180  
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<210> 12939

<211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-B8  
  
 <400> 12939  
  
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 caagggcaag tcgtcggcgc cgaaccctag cggcaaccac gctgcgacgc cggcgccatc 180  
 ggggacgcct tcaaagggca agtcggcggc agcgcaggcc gcggctttgg gccacggttc 240  
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<210> 12940  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C12  
  
 <400> 12940  
  
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 gatattaatg caaatattat cgagttgggc aaaaaaaaaa aaaaaaaaca attaaaaaaaa 180  
 aaaaaaaaaa acaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaac acaaaaaaaaa 240  
 aaacatatata tctaaaaaaaa aaaaatcaca gcacgtatca ttccaaca 288

<210> 12941  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-026-Q1-K1-C2  
  
 <400> 12941  
  
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 agtttggttg gctagtaaata gtaatgttat cttaggtggg attactaat cgggccagta 180

atgttgaatt cttagctggaa cgcggtaatg tttgatgcac cgaagtcgct tgcagtaggt 240  
 tccgatggcc caagccacca aaaacttggt tgctccatga acctcgcaat cctgttaggt 300  
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<210> 12942

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-C3

<400> 12942

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 cactggagac tgcgtagctg ctactttga acacaaccac taccgatgtg gactaaacgt 180  
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<210> 12943

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D10

<400> 12943

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 accaagtagc tctggcaaac ctttctccct actctcagca acaacaattt cttccattca 180  
 accaactgtc tacactgaac cctgctgctt atttgcagca acaactatta ccatttagcc 240  
 agctagctac tgcctactct cagcaacaac aatttcttcc atttaaccaa ttggccgcac 300  
 tgaaccccg cgtttatttg cagcagcaaa tactactacc atttagccag cttagctgcag 360  
 caaacctgtc ttccttcttg acacagcaac agttgctgcc tttctaccag cagtttgccg 420  
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<210> 12944

<211> 304

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-D9

<400> 12944

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cctccaacaa tcatcagccc tattacatca cttacctttc gtgcatatat tggcacaaaa  180
catcagggta caacaactac aacaacttat gtaacaaaac cttgctgact acgttcagca  240
acagcagcta cttttgggtg aatagctgtc acaatacatc atggcacaac aactacaaca  300
actc                                     304

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<210> 12945

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E11

<400> 12945

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ccagccacac ccatgcccgg gccaaagagc gtatccaagc ccgtgccaga tgcacggaac  120
ctgcagcggt tgcagcacc cgtacctggg ccagtgcgtc aagttcctga ggcatcagtg  180
cagcccgacg ggcacaccct actgctcacc taagagccag tcgttgctga agcagtgtta  240
ccagcagctc acgcaggtgg agcctcagca ccggtaccaa gcgatctatg gattggacct  300
gcagtccatc ctgcagcact agccgcaaag tggccaggtc gctgagctgt tggcagctca  360
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<210> 12946

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E12

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catgtgtcgt accccgtgca atgcgtggct ggcgatgggt gatttctctg tggcaaactt 120  
cccgtactgc atgggggtgt aagctgtctc taaatttcac ggcaagtcac gtgcctgaac 180  
cttcattctta agttgttgct gtatcccttc gtcttgcttc ggttgcaccc cgtgatggta 240  
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<210> 12947

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-E3

<400> 12947

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acatgttcgc acatccatct ctgcatggta cctcttcttc agatactcca tactctctca 180  
ccacctaatt 189

<210> 12948

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F1

<400> 12948

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gcctgactgc cggtaacgga gggcagctgt ggtgtagtat atctcagtca catggggaggc 180  
gtagataat ttttgaccaa atgttataaa ataagacact attaaatagt ttttttatat 240

<210> 12949

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F10

<400> 12949

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agaagcttgt agggcccgctg acagtgaaca gcaccgacgt ttgatgctcc atgacaacgc 120  
cgtacagtcc ttgacgacag gcgaaactta catgtgtgga ctagctataa tcgtgccgcg 180  
ctccctcttg atgaaactgt acccgcaaca ccgactcttg gtcagctgac catccgcctt 240  
gttccttaac tggtcacctt tagcaggact acagctatgc attagacctg cgtttgctac 300  
aagatgttca actagtgcac gtacatgtat atggatgccc acctcgcgta cgcgcaggta 360  
tgttcaattc acagaggaaa cacaatagca tgtatgcagt gtttttctta ccacacata 419

<210> 12950  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F3

<400> 12950

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tgctgctg acttgcacgc tgcttcacgc ttatggacct gcagcttgtg gggaaccagc 180  
tctttggggc actccttccg gagctagacg cactatctag tctcaccgtt ctagatttgt 240  
ctaataacaa gatctctggg gagattcccc tagcgttggc tgggtacacg tctttggagg 300  
tcgatgact 309

<210> 12951  
<211> 64  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-F6

<400> 12951

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aaag 64

<210> 12952  
<211> 323  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G1

<400> 12952

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gagaggttct cccgagggcg ggggcgtgcg tgagcgtatc gagatggcgg cgtctgatgt 120

tgagataccg cttgattgtc cgccgtctca cctgtgccac ggacgaccac tctctccaca 180

acgccttttag cacctacagt gaggtcctcg actccaagat catcctcgat cgggagacgc 240

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ttcgagggca tgaacggcaa gga 323

<210> 12953

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-G2

<400> 12953

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cccagctgtg caagcctata ggctacaaca agcgattgcg gcgagcgtct tacaacaacc 120

aattgccccaa ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 180

acagcaacaa cagttcctac cagcactgag ccacctagcc atggtgaacc ctgtcgctta 240

cttgcaacag cagctgcttg catccaacc acttgcctta gcaaacgtag ttgcaaacc 299

<210> 12954

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H12

<400> 12954

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gctggggctg gtcattgtga acgagtgcc tgcggttggg gcgcctgtct aagctgctct 120

ctagcattat tcatgcgatg ctgttttcga atgggtatct cattaataag acacctatga 180

aactactacc atatacacac cttgaaacca aacttttctga gattcattac cttctgatat 240  
cctatgctga tggaacatac tctggactct tcaccattca tacttacacc atcctgtgat 300  
cttggagtaa caacttctac tttggcgacc gttctagatg atccaacctt acgtacgcat 360  
ccatgcttaa tgctacctct tctatactgt cacctaaatc taattcaata gc 412

<210> 12955  
<211> 75  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-026-Q1-K1-H4

<400> 12955

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tagctcagcc ggacg 75

<210> 12956  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-026-Q1-K1-H6

<400> 12956

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aaggaaaagg aagggtgtggg agagtatcat gggcactatt ggaccacatg tactcatagt 120  
tgatgacacc tttgttgatc gccttggtggc atctcgagtt ttgaagactt gtaacattca 180  
agtgacaatg gtggagggcc caaagcaagc cttagatttt ctagatgtgg agaatzgatgt 240  
aaatttgatt ctgaccgatt attgtatgcc tggatatgact ggatatgatc tcctaatzgga 300  
ggtgaaggaa tcaccaaagc tgaagcacat gaggagztatt ggtcatgt 348

<210> 12957  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-A1

<400> 12957

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 aatgctcaca agctcctata gcttcccttc ttcccccata ccttccatca attatagctt 180  
 caatatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240  
 acataccttt atcgcccttg ttgattcaac aatcgccagc cctatctttg gtgcagccat 300  
 tggtagaaac catcatggca caacagctgc agcaactcgt gctacctttg atcaaccaag 360  
 tagctctggc aaacc 375

<210> 12958  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-A4  
 <400> 12958

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 ccccgatttg attcctaagg tccaggtcct cgggcgattg ctttcccaaa tacctgttgt 120  
 ccttaagggc aggggttaaac cgacctatcc ccacttgtc aaaaatggag acatgtgcat 180  
 tgtacttaat gcacaggata tcagtgttac atgaaggaaa atgaccgata agatttacta 240  
 ttggcataca cggtatgttg gccatttgaa ggaaaggagg ctcaaggacc agatggagaa 300  
 agacccaact gaagtgatcc gcaaagctgt gttgcgcatg cttcccagca tcatactgcg 360  
 tgatgatagg gatcgcatgc tgaggatatt ttctggaaac gaacatccat tccatgaccg 420  
 ccctatggaa ccttatgtga tg 442

<210> 12959  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-027-Q1-K1-B5  
 <400> 12959

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gctcctatag cttctcttct tccccatac ctctaaccag cgttgtcttc agtatgtgaa 180  
aaccaattc ttcaacccta caggatccaa caggcaatca cagcaggcat cttaccttta 240  
tcacccttgt tctccaaca atcatcagcc ctattacatc aattaccttc ggtgcattta 300  
ttggccacaa aacatcaggg cacaacaac 329

<210> 12960  
<211> 162  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C1

<400> 12960

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tctgatgttt gtggcttccc agaaataaga aagtacattt ct 162

<210> 12961  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-C9

<400> 12961

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gccctacggt gacctgccgt taaggcaaag aacttatttg caagtctgag cactattttg 120  
gggggtgggg tgggggggtgc gttgttttta taactgtctt ttttccata gttggaagtt 180  
ttcttactca attgaatgaa cgagggaact tattgcatac tatcaaatgt tttgtgatat 240  
ggtgttgagt aattatcaac accttgatt ttaaaaa 277

<210> 12962  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gcgcccacgc tcccagtcgc catccccgcg ccgcgaccgc cgccgcccgc accgctcccc 240

gatcccttac cgcgatcgct ccccaagtcc atatcgagcc cgtcgtcgtg accgatcccc 300

gagcccttac cgcgatcgcc gcgaccgctc cccgagccct tatcgcgatc gccgcccga 360

gtggtcacc taccacaacg accgcggccg ggaccgtgac cgggtcctgc ccgtccgtag 420

cggcagaggc gcctggtccg atga 444

<210> 12963

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-027-Q1-K1-D3

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acaatgctca caagctccta tagcttccct tcttccccca tacctctcac cagcgggtgc 180

ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240

catcttacca ttatcacctt tgttctctca acaaccgtca gccctattac agcagttacc 300

tttggtccat ttggtggcac anaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360

aaaccttgc gcatactctc agcaacatca gtttcttcca ttcaaccaac tggtgcatt 420

gaactctg 428

<210> 12964

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E2

<400> 12964



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ctcaaccagt ctgttgcaaga cttgtagctt tgggtgtaca tagtttatcc tttttttcat 180  
agggtagaaa ggaaagcgta attatccttc gcaaaagctg ttaactgtgt attgaggcag 240  
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attggtaaaa aagatgcaac 320

<210> 12965  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-E4

<400> 12965

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aaaaaacaaa aaaataaata aaatggaagt ttttaaaaaa ttataaaaca tctaata 116

<210> 12966  
<211> 150  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F7

<400> 12966

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atctacatac aacaatacaa acaatcaata 150

<210> 12967  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-F9

<400> 12967

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 ttgtgaagag atttcaccca atcaatgaaa gaaaacatgt atcttgttga tggctatagt 180  
 ggtttgaaaa caaatcgctc ataaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaacaaca aaaa 254

<210> 12968  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-G4

<400> 12968

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 ttagtgatgg gaatctaacc ttattgttgt gttgtgggta ggccagccaa ggcctattg 180  
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<210> 12969  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-027-Q1-K1-H12

<400> 12969

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 agcacaatgg tcacccttct attggctgtt gccattctgt cctcactgtc ttcattgtac 180  
 gaagccggcg gctgcattcg taaacacact aagtcaccag tcgcccgcga gaatgccata 240  
 cttctcgtcc tattccgagg agcaccagaa ctgccgcttg atctgtaact ccaaggggtt 300  
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 gaaatataat agcctatgtt aagttgatgc atata 395

<210> 12970  
 <211> 237  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-A4  
  
 <400> 12970  
  
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 taatgcagta agacgacaca cattatcatg tgtggatga ccaataatat atgcatggtc 180  
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<210> 12971  
 <211> 142  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B5  
  
 <400> 12971  
  
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<210> 12972  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-B7  
  
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 aaatactact accatttggc cagctagcta caacaagccc cgcttccttc ttgacacaac 180  
 aacaattgct tccgttctac cagcaatttg tggctaacct cacaaccctt ttacaacttc 240  
 aacaattgct gccctttgtc caacttgctt tgacaaacct aacaaccttt taccaacaac 300  
 acatcattgg ccgtgccctc ttttaaattg cttattaact gccattcaat aatgaagttt 360

tctggcttga tgtatgtagc ctccct 385

<210> 12973  
<211> 446  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-028-Q1-K1-C1  
  
<400> 12973

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ggtgaaacca accaggggtt ttgttactct tttcaagggt tctaaaggca actggttaga 180  
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aatagccaaa gcttgggtctg atgccaggtc tgggaagacg actgattcga tgagcggatt 360  
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<210> 12974  
<211> 375  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-028-Q1-K1-D1  
  
<400> 12974

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ttgccccaaat gtccctttcc aagaaattgt tgaaaaatac ataacctatt cctaacttga 180  
tggggttccc aaaaatcctt gatgccgatt ctagacaaga ataaccatg gttatgcttg 240  
aactccgncg tgaatccctt tcatggccaa ggggttcctt attgcagtaa ggcatataga 300  
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<210> 12975  
 <211> 62  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-D11  
  
 <400> 12975

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 aa 62

<210> 12976  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-D2  
  
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 gctgcacagc aagctgaccc agatgtcctt tccaagaca tgctgaacaa atacataacc 180  
 tatgctaata tgaatgtggt tcccaaaata catgatgccc atctagacaa gattaaccat 240  
 gtttatgctg aacttcgtca tgaattctct catggccaag tagtgtctat tgcaataagg 300  
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 gggg 64

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<212> DNA  
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<223> Clone ID: LIB3059-028-Q1-K1-E11

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<223> Clone ID: LIB3059-028-Q1-K1-E6

<400> 12979

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 gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc ctttcttccc 180  
 ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca gccctatagg 240  
 ctccaacaag caatcgcagc aagcaacata cctttatcac ccttggtggt tcaacaatcg 300  
 ccagccctat ctttggtgca gtcattggta caaacatca gggcacagca gctgcagcaa 360  
 ctctgcttac ctgtgatcaa ccaagtagct ctggcaaacc ttcc 404

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 <213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-F11

<400> 12980

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 cggaaccggg ccttcaccaa ggtggtcggc aacttctctg cgctcgacta catgcgcctc 180  
 tccaccatct ccgccgtctc cgtcaccggt ggctacctct ccgggatcaa gccggggatc 240  
 cggggcccgt cgatggtcac gggcggcctc atcggggtca tgggaggggt catgtacgcc 300  
 taccagaact ccgccgggcg cctaattggga ttctttccca acgacgccga ggttgcgcg 360

tacaagcaca agcttcattg aggatccagc tccattccgt ctctcttttc gcaa 414

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<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G1

<400> 12981

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gctgctacga cgaccatttt cccgcaatgc tcacaagctc ctatagcttc tcttcttccc 180  
ccatacctct caccagcggt gtcttcagta tgtgaaaacc caattcttca accctacagg 240  
atccaacagg caatcacagc aggcattcta cctttatcac ccttggtcct ccaacaatca 300  
tcagccctat tacatcaatt acctttggtg catttattgg cacaaaacat cagggcacia 360  
caactacaac aactcgtgct agcaaacctt gctgcctacg ctacagcaaca gca 413

<210> 12982  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-G5

<400> 12982

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acaatgctca caagctccta tagcttcctt tcttccccca tacctctcac cagcgggtgc 180  
ttcaatgtgt gaaaacccaa ttgttcaacc ctacaggatc caacaggcaa tcgcaacagg 240  
catcttacca ttatcacctt tgttcctcca acaaccgtca gccctattac agcagttacc 300  
tttggtccat ttggtggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc 360  
aaaccttgct gcatactctc agcaacatca gtttcttcca ttcaaccaac tggctgcatt 420  
gaactctgct gcttat 436

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-G8  
  
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 aaaaaataaa aaaaattaaa ataaaaaaaa aaaaataaat taaaaaacat atattacata 120  
 aaaaataact taaatatatc aaaacttaat tattaaacca tataacttaa aaaata 176

<210> 12984  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
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 accggcggca aggcgccgcg gaagcagctg gccaccaagg cggcgcgcaa gtcggccccg 180  
 gccacgggcg gcgtgaagaa gccgcaccgc ttccgccccg gcaccgtcgc gctccgcgag 240  
 atccgcaagt accagaagag cacggagctg ctcatccgca agctcccctt ccagcgctc 300  
 gtccgcgaga tcgcgcagga cttcaagacg gacctgcggt tccagtcgtc ggcggtggcg 360  
 gcgctgcagg aggccgcgga ggcgtacctg gtggggctct tcgaggacac caacctctgc 420  
 gccatccacg ccaagagggt caccatcatg c 451

<210> 12985  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-028-Q1-K1-H11  
  
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agtcctata gcttctcttc ttccccata cctctcacca gcgttgctctt cagtatgtga 180  
aaaccaatt cttcaaccct acaggatcca acaggcaatc acagcaggca tcttaccttt 240  
atcacccttg ttcttccaac aatcatcagc cctattacat caattacctg tgggtgcattt 300  
attggcaciaa aacatcaggg cacaacaact acaacaactc gtgctagcaa accttgctgc 360  
ctacgctcag caacagcagt tacctttggg gcaattgttg gcacaaaaca tc 412

<210> 12986  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H5

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actgcttcct aaaccgtaaa tccgctcatg ttacattcag ctatccataa taccttcaag 180  
attcacatat tgccatgaac agattccata tgcagagacc tgattatgga ggcctataac 240  
atccccattgg attgcagcat tcagacacca ccttaataag gttctactta ggcaacatcc 300  
agaaccgtca ttcttttgag aagcctggga cgattaacga ctcaagctat gaatactctt 360  
tacctgcgac gacttgtgct cacgatatga agcagctatg ctccacaagc agtctttcgg 420  
tgatgtacat ggagctcttg catagagtag tgtatgtggc aattatc 467

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<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-028-Q1-K1-H6

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gttctgctct gaataaaagg ttggagtgat ggctctcttc ctaggtagtc gggtattatc 180  
tccaggggat ctttatcttt ctttttttcc tttttgaatg aagctataga aggtctgctg 240

actgtctcga gatatttact ttctgtaaca gactgataag tctgatcttt gagccattct 300  
gttttccgac gtcatttgtt tgaccattta gttaagctgg aatacaaaag atatcgctaa 360  
c 361

<210> 12988  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B7

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gacccaactg atgcaacagt gctctcaaac agaagcctgt gctggctgcg ggcagggcaa 180  
gctgagcgtg ctctggagga cgccaaagca tgccgtgcat tgagaccaga ttgggcgaaa 240  
gcctgctaca gggaagggtgc ggcgcacgt ctgttacaga ggtttgagga agccgcaaac 300  
gccttctatg aggggggtgca gcttgagccg gagaacacgg agctcgtcaa cgcattcacg 360  
gaggccatcg aagccgggag gaagttccat ggcgtgaaca cgccaaactc aacacaatga 420  
gactttgctg ataggggtgga taggtagatg atg 453

<210> 12989  
<211> 199  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-B9

<400> 12989

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caccggtacc aagcgatctt ctgcttggtc ctccagatca tctgcagca gcagccgcaa 180  
aacggacaag ttgcggggc 199

<210> 12990  
<211> 80

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C11

<400> 12990

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cgcaaccctg gtgaactaca 80

<210> 12991  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-C3

<400> 12991

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actgtcacct aacaataatt cactccccgt ggctg 95

<210> 12992  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-D2

<400> 12992

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acttggggca gaagctgcag cgtcgagatg gtgaaggggc gcacggggca gcgcgtgagg 120

ctctacgtcc ggggcaccgt ccttggatac aagcgggtcca agtcgaacca gtacgagact 180

acgtcgctgg tgcagatcga ggggggtgaac accaaggagg acgtcgctg gtactgcggg 240

aagcggatgg cctacatcta caaggccaag accaagagca gcggcaccca ctaccgctgc 300

atctggggca aggtcgcccg cccgcatggc aactccggcg tcgtccgcgc caagttcagg 360

tccaacctgc cgccggaatc catgggccgt aaggtcaggg tgttcatgta cccagcagc 420

atctaaagat aatctgaatg t 441

<210> 12993  
 <211> 423

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-D9  
  
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 gacaggggaa ttaatggcgt cgtcgtctag cagcagccac cgccgcctca tctcgcgagc 180  
 cgccgtcctg ctctccgtgc tcgcgggtgc cagcggcagc gccgggacct cctgcgtgcc 240  
 ggggtgggcc atcccgacaca acccgctccc gagctgccgc tggtagctga ccagccggac 300  
 ctgcggcatc gggccgcgcc ttccgtggcc ggagctgaag aggagatgct gccgggagct 360  
 ggccggacatc ccggcgctact gccgggtgcac ggcgctgagc atcctcatgg acggcgcgat 420  
 ccc 423

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 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-E10  
  
 <400> 12994  
  
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 ccaccacact ttagctcccc actgctatag gcagcccaca tgccgcgaca ctcttaagct 180  
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 accgcagctg ctcgctggtc accatgagca aggagaagca ccaccgcgac tggatcctcc 300  
 ggcgctgctg cggctccatc accgactgca tactgaatct atgcatattt gtaagcttga 360  
 tagggctgat aatgtaccta gcgctgcccc cttcaagcc gaacttcta 409

<210> 12995  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-029-Q1-K1-F10

<400> 12995

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aagaatcgcg gcacaacaac tacaaggaca gttgctacca acaatcaatc aagtagttgc 120

agcgaacctt gttgcttacc tcgagcaaca acagtttctt ccattcaatc aactagctgg 180

ggtgaaccct gctttctact tgcaggcaca acagctacta ccatttaacc aacttgctcg 240

gagcccttat gccttcttac tgcaacaaca gcttctgccca ttccatctgc aagctgtggc 300

aaacattgct gctttcttga gacaacaaca tttgttgcca ttttaccac aggttggtgg 360

aaacattaat gccttcttgc aacagcaaca attgctacca ttctaccac agaatgcggc 420

aaacatttgt gcctttttac aacaacaaca a 451

<210> 12996

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F12

<400> 12996

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tggacgccgg cggaggcggc gtcttggtcg ccgttctctg catgctgctg gtcttcgcca 180

tcttccccct cctctcttgg cgccgtcgtt ccgatgccgg caccgccgat aaccaccg 240

tgccggccca gccctccac gaggatcagg tgctgcacgg tcgctcgtcg gcgcgacgga 300

tgctgcggag gcctggggct gccggagcaa gctcctctac tgctgcaact agccccaatg 360

ctgtagaaga cga 373

<210> 12997

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F3

<400> 12997

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cagagttttt ctatcttata tcctgaattt gttatcccaa agtttcctgg ctttttaact 120  
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 aaaaaataaa acgaaaaaca tatac 205

<210> 12998  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-F9

<400> 12998

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 atg 63

<210> 12999  
 <211> 375  
 <212> DNA  
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<223> Clone ID: LIB3059-029-Q1-K1-G12

<400> 12999

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 tgcgtatgat ttccacatca aatgactttc cacgctacct tcccagcgac cttcagccag 180  
 tgcccagctc cagttaatct tatgccccca tgtcctccat tttcatgctt tgctcaagct 240  
 tttggaagtg cctgaactga tttggaaccg caagccttcc agtggtgctt tagaaacttg 300  
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 cagataatat gggac 375

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 <211> 345  
 <212> DNA  
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<223> Clone ID: LIB3059-029-Q1-K1-G6

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 agcagcagca gaagcagggc gccatgatga cggcgtcaa ggccgcgacg gccgcgacct 240  
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<210> 13001  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H10

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 ttgagtaccg ttgattcgct ggcggcctca cctgggccac ggacgaccac tagctacaca 180  
 acgccttcag caactacggc gaggtactag agtccaagat catcctcgat ccggagactc 240  
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 agacggcatg aactgcaagg agctgga 327

<210> 13002  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-029-Q1-K1-H3

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 tcaatatcat tatgcagctc caagttccta tcgcatgatg ttcagactgt tagacgaaga 180  
 accgctgata ttgtgatagt gaattggtca gatgaaaatg ataagctatt gcaacaacac 240

atcacatata cattgcctat tacatgctgc tatgaagatg ctaactatga gtggatcaac 300  
atcagccact gctctgttag agctttcgta gacctgtaag aaacgaaggc agcatcagct 360  
gatcatggac cactgactgaa atctctct 388

<210> 13003  
<211> 81  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H4

<400> 13003

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ggaaaaaaaaa aaaaaaaaaa a 81

<210> 13004  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H7

<400> 13004

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accctagtga ctctatggtg gatacttgat cctatTTTTT gctagaagct ttcgcattga 180  
cctgtcaacc cgctaggtca cgcttgggtg catgtgcttc tgggccttaa cttataccat 240  
gcggacacac tgctaattgt ttgttagtct cagcagcgca tgctgctagc acgaatcccc 300  
ttacctgttg gaaatctggc ttacgtcatg gcacagaaac ca 342

<210> 13005  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-029-Q1-K1-H8

<400> 13005

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gtaagtcttg cggattgact actcgggtgc attagtttgg cagataatct taaagaaggc 180  
tatcatgtgg gtgcaagaaa cattcacatt catatacatc agctgcggat taccgcgtac 240  
cgcgatgggt tcaggactca gggagaatgc tcattgtgac caatctccag caacgtcata 300  
tatatccgtt ctttacagtt ttctctaaaa gtttttgtcc tctatatctc ttctctcttc 360  
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atatgttaga gatataatgt gg 442

<210> 13006  
<211> 416  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-030-Q1-K1-A12  
<400> 13006

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gtgttgcaaa aataaggaaa tagctgttaa gacagtcaaa accatcaagt tcttgggact 180  
acatgaagag actcaaatac ctaagggttg ttogagccca tttgatgtga tttgccagcg 240  
aatggaacag aggatggcct atggccacaa tgagcaagac atgggtactgc tccaccacga 300  
agtcgaggtg gaatacccg gacgggcaacc cgccgaaatg caccaagcga cgctactgga 360  
gttcgggaag gttgaaaatg gcaggtccac cactgccatg gcgctgaccg tcggca 416

<210> 13007  
<211> 382  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-030-Q1-K1-A5  
<400> 13007

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gtcctatag cttcccttct tccccatac ctctcaccag cgggtgtctt aatgtgtgaa 180

aacccaattg ttcaacccta caggatccaa caggcaatcg caacaggcat cttaccatta 240  
 tcacccttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtccatttg 300  
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<210> 13008  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-B2  
 <400> 13008

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 acctgtctaa tcacagctcc aactactggg gcaccgaaga aagcaaagaa gtgaagtatt 180  
 gaaataaagc tgtagctttc tagtccagta ctgcactttc ttttataagc tctagtcaaa 240  
 ttttggagcg cctgaactgt tttgctgtta tataacttag tgtattgata aattcgacta 300  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 acggaagaag ctaaaaaaaa ccacaggggc ggtaacgcat ccagggttaag taaccagggc 120  
 tgccgcttta aaggatccaa attaagtcag ccatacttac gacgttagac ctctgttata 180  
 cgagcgcacc taaaattgaa ataa 204

<210> 13010  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-C7

<400> 13010

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gtgaagcctt ggaccagcat ccaatacttc cagttccagt atcatgatga tcgtcagtca 180  
gctcaaaggg ggtgatctgt tgtttggata gttggatcca ccagggcctg acattagaca 240  
tccatcagcc aattaatccc tttagccacc ctttactcgt gtcttgggag gcggcttggc 300  
tgtaaaggat attctgtaca gcatttagtt ggattcaaca catcatctgt tttactggtc 360  
ttcctgccgg caagggacct cattggcagc atgacatata atagat 406

<210> 13011

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D11

<400> 13011

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gcggagcacg acggccaggg cagaccacag ttccgggccc ctgcttcgag gtcaactggc 120  
cacatctgca aaaccagggg ttccccggcg gcaggtgccg cggettacgc gcgatgttct 180  
gacacaacac tgccactgat tcgtcgccag cggcggtgcg gtgcgcatcat cgcgccgtag 240  
cgaccagacc attctcatgc atgaataaca aggcgtgccg ttgtgatgcc aaatgatact 300  
atcgtcagag ccgaacgggt atcgagctca actat 335

<210> 13012

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-D9

<400> 13012

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ttggttaatt tgtactattg gtggtttgta agattggcct atgtgattca atttatgcgc 120

ctgccgctgt tgatactgca aaa

143

<210> 13013

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E10

<400> 13013

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aacggatgga caagtatatg tgcagggtga tgtggtgttt ccggatcgtg tgtttgtctc 120

agatgaaaaa tataacaatat tttgagtcca agttaatcaa tgttccattt gcctatactg 180

agctcaattt gctagggtcgc atgttccatg taattactat atctgcctat atcaattttc 240

aagctctttt agatgtgctt aatacttaac cggctcaacc tcatctacat gctaagggac 300

ctctttcctc agtacccaat cttacgcaag tgcgaatacg actgcataac t 351

<210> 13014

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E11

<400> 13014

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cagcctcacc ccggcgcccc cgccgattca cgtaggcctt tgttggaagg aacgatggag 120

cagaccttca tcatgatcaa gcccgcggc gtccagcggg gcctgatcgg cgacatgatc 180

agtctccttc gagaagaaag ggttctacct caaggggatg aagctcatga acagtgagag 240

ggccttcgcg cagcagcact acgctgacct ttacgacaag cctttattca ctcggttgaa 300

cagatacatt atgtccggcc ccgtagtggc gatggtgtga gaggcgaatg acatcatgtt 360

gactggccgc aggatcattg gggccacca 389

<210> 13015

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-E8

<400> 13015

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gaatgttata tttggggccac cgcttcagaa gtactgggca gagaagcagc agcaagaggc 120  
agcaaaagaa ggccaagctg gttcaacctg acaaaatgtc ctcccccttct gcagttacac 180  
ggagaaatgt gtactcctcg gtcctgaact agcatcggct tttgttagca ttggttacat 240  
ttagttgccc aagtttttgg cgctggaaga agacaccgtg caatgcacag aaagatttga 300  
aaaacgttta aatgctgggt gatctcattc tgaaatacag tacctttgat ga 352

<210> 13016

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F1

<400> 13016

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gaagagctgg attcaagatt ggatatgtcg aagctaaggg cgcacccact gaagcctgtt 180  
attcactgag gtccgagtat gtctttgggt aatatgtgga ctggatggat gggtcactgt 240  
tgaatgcagg atgtagcatc atcatggtga ggggactgag taatatggac atgtatcttg 300  
cgtattgtgc aatgaatgtg ttggctgttg ggtcgttgc ctacgcattc tgtaagattg 360  
cagttaccat taggaactga 380

<210> 13017

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-030-Q1-K1-F11

<400> 13017

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tttacaaggt ctageggcat ggtncctact accaaatgtg ccctgccct gagcacgttt 120  
 tgtccccctt aaaaactagg aacagaatta gaacctattc tcttcttgcg gggtttccaag 180  
 gacggggcgac gaatatgggt aaaaccaaag aacgtatttg ctttgctgcc ttcacatcac 240  
 gatgcggagg acggctaggc cgacggctga gatcgaaaca atggtaccta tgcagtactt 300  
 gatgacatcg tactttgctg cctacaactg ggccttcagt gagtggattt ccttgtaag 360  
 ctttggtgga agctcagtgg ttctctcatt ctgctcggca agctcatcac gtatgc 416

<210> 13018

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F12

<400> 13018

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 cggtcaggaa atgatgcggg tgaccgcgga agatctgtgg ctcaggcgct gcagatgcta 120  
 ggctgatgtc aatgtgccat gtctgatgtc actctgccgt agcagccact gcggtaccgg 180  
 tggttgcttc ctaggcccta tatacattca atgctcgcta taacaggagt atgcgtgcgc 240  
 gacagtgtat tgatgcgaac gacgctgcgg accattgctc ggacaatgct acaaggaaac 300  
 agagtgtatt atcatacgat ctgatactgc cgcccaacac ggaacagctg agcctggcgg 360  
 tcattataga gata 374

<210> 13019

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-030-Q1-K1-F2

<400> 13019

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 caaactttgt cccaatgtt gacaccttgc ttgaagcaaa catgggcatt tcccagacac 180  
 cttcaagaat ggtggtgcct gaaggcctct gtggtgccat tatgccggtc acaaatacct 240

gggacaggta gctgcataac tcaacaattc gacacggggt ggcacatcatgc cttggggaact 300  
tgctttcata aggatcgggtg gacgccaagg ctcaagcggc gacatgcttg gcccaactgt 360  
tacagtacac gattgcgcta ctcaagttaa aaacgccca 398

<210> 13020  
<211> 209  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-030-Q1-K1-G10  
<400> 13020

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aaaaaaaaat aaaaaaaaaa aaaagaaaca aaaaaaaaaa aaaaaataag aaaaaaaaaa 120  
taaaaaaaaa aaaaaaaaaa aatcactaa aaaatcaaaa tacaacataa aatcacataa 180  
aaaccctgta cactatcaaa aacaatgtc 209

<210> 13021  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-030-Q1-K1-G7  
<400> 13021

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caacaatacc tctctccggt gacagccgag agatttgaat acccaactat acaatcctac 180  
aggctacaag aggccatcgc agcaagcatc ttacggctgt tagcattgac tgtccaacaa 240  
ccatatgcc tattgcaaca accatcctta gtgaatctat atctccaaag aatcgtagca 300  
caacaactac aacaacaatt gttccaaca atcaacaag tagttgcagc gaaccttgat 360  
gcttacctnc agcaacaaca atttcttcca ttcaatcaac tagctggggt gaaccctgct 420  
gcttacttgc 430

<210> 13022  
<211> 295

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-G9  
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 caactgatgt acccgtttag ttttcttggc cttagatgag cagtatcggt gtgtaattat 180  
 tgatgagtca ggtccatagc attttgaata atacagtgat tcatccagtg aactgctgat 240  
 tcaacacggt cttaaaaaaa aaaaaaatg atgcataaaa aacataggag gactt 295  
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<210> 13023  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-030-Q1-K1-H1  
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 atctgctgag attgaccatt gtaagaagaa ctacaagttt ggttttggaa tgaccgtagg 180  
 agagtaattc tgccaaaaca attgctgtga gcgcacatga gatacttatg cagtcgggctt 240  
 cgcgcgatg ttgacttggt aaagatatct caggtctcag ttttgactga tcagggttttg 300  
 ccattgcgcc gtggaaaaac acaggccggt gctgctttac aggggtttgt atttcagtgt 360  
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 gat 423

<210> 13024  
 <211> 218  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-A2  
 <400> 13024  
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gctcgggtggc aggttgccgg gggctgtgcc tttctgtcca agatgggtcat tattgaccat 120  
ggagacttct agcagcaatt ggcaccttgc attgttaget atgccttttc tgatgctgtt 180  
gctaacaagg aaggcatccc atcccaattg gattgtac 218

<210> 13025  
<211> 453  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-A6  
<400> 13025

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ctgtgttgct cactgaggct cctttgaagc cagaggccaa cagggagaag atgacccaaa 120  
ttatgtttga gactttcaat gttcctgcc aatccaagca gttctatcac 180  
tctatgctag tgggcgtact actggtattg ttcttgactc tggatgatgg gtgagccaca 240  
ctgtgccccat ttacgaagga tatgcccttc ctcatgccat tcttcgtttg gatcttgctg 300  
gtcgggacct cacagactcc ctcatgaaaa tcctgactga gaggggttac tccttcacaa 360  
cctctgccga gcgagaaatt gtaagggaca tcaaggagaa gctggcatat atagcccttg 420  
actatgagca agagttggaa actggcaaga aca 453

<210> 13026  
<211> 73  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-031-Q1-K1-A9  
<400> 13026

aaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60  
aaaaaaaaa aaa 73

<210> 13027  
<211> 450  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations

<223> Clone ID: LIB3059-031-Q1-K1-B11

<400> 13027

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tatatgttag atntagacat ggaaaaata ttagaggtag gaaagtagga tcatgtcagt 120  
gtatgagcta gaaactacga agtaatcaca tggctaacta tgtacaactg agcatacctt 180  
tacgggccag aaaactaagt ggaaagacta ggcattggac ttcagatagt ggattttatg 240  
ttttagagaa ataagtaaag atcttttgac ttgagtcagc aagtgtctca tgtttcacct 300  
gaaatgctct ctggctgtgc atgtcctaaa aactattaat gatttttaact ttaccttttc 360  
aatttttcat ttactagttt gctgtccaca gattattttg gttcaagttg ttacttttat 420  
agattcaata actggttatcc aaatattatg 450

<210> 13028

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-B12

<400> 13028

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gacatgaaaa aatattagaa gtgccgaagt atgatcatgt cagtgtatga gctagaaact 120  
acgaagtaat cacatggcta actatgtaca cttgagcata cttttacggg ccagaaaact 180  
aagtggaaag actaggcatt ggacttcaga tagtggattt tatgttttag agaaataagt 240  
aaagatcttt tgacttgagt catcaagtgt ctcatgtttc acctgaaatg ctctctggat 300  
gtgcatgtcc taaaaactat taatgatttt aacttttacc tttcaatata tcatttacta 360  
gttcgctgta cacagattat tttagcccag gtagattctt tcatagattc aataacttgt 420  
attccaatat tatgacctga tg 442

<210> 13029

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C10

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cacccgacat actcgatccc gacgccacca acagttacca tgtccccggc gcacctcggc 180

acgagcgaca cgatgatcgt cttgtccccg tcagcaccga tgtcgtcgag caggtcgcat 240

atgccgaacc tcgccacggc cttcacccgtg cccttgccct tcccaggccg gaccgcgtgc 300

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ga 362

<210> 13030

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-C7

<400> 13030

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gctcaagaca agcgtactg gcctggccat tgatgcctat ggtcctatca gtgacaatgc 120

tggaggaatt gctgaaatgg ctggcatgag ccacagaatc cgtgagagaa ctgatgctct 180

tgatgctgct ggaaatacta ctgctgccat tgggaagggt tttgcaatag gttcagcagc 240

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ag 302

<210> 13031

<211> 350

<212> DNA

<213> Zea mays

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<400> 13031

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 ataaaaaaaa ataaaaaaaa taaaaaatat agaaaaaaaa taaaaataat aaaatttaat 300  
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<210> 13032  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-E10  
 <400> 13032

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 cgtcgcgctc gtcgtcgtcg ttttcgttcc catcgtcaca agtccagtac caaacgtgcc 180  
 agcgcgacgt cgacaggcac aacgtctgcg ccatggagggt gaggcacagc gtcgaacggc 240  
 tggaccaggc cgacgtctac agccctgggg ctgggaggat cacacgcctt accagccaca 300  
 agttccccgt tctcaacctc gtacagatga gcgcggtgcg ggtagacctg taccaggact 360  
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<210> 13033  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-031-Q1-K1-E11  
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 gtgctacctc tgatcaacca agtagctctg gcaaaccctt ctccctactc tcagcaacaa 180  
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 ctattaccat ttagccagct agctactgcc tactctcagc aacaacaact tcttccattt 300  
 aaccaattgg ccgcactgaa ccccgctgct tatgtgcagc agcaaatact actaccattt 360  
 agccagctag ctgcagcaaa ccgtgcttac ttcttgacac agcaacagtt gctgcctttc 420

taccagcagt ttgcgggctaa ccccgcaacc ctctt

455

<210> 13034

<211> 266

<212> DNA

<213> Zea mays

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<400> 13034

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tgtaaaactt ccaaactggt catgcttaaa actgaggggt ttcttggtgt gaggtgtgca 180

tgtcgttggt gagggcattg ctgcacattc cacctattga ggccctcttc aaattaagcc 240

tcgaaaaagc tgatatcttt tcgtag 266

<210> 13035

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F3

<400> 13035

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cgcccaacga cctgcttaac atgttcctta tgtcataatg caatagaata ctcacatgaa 180

cacttctact cattagcaca tatatcact 209

<210> 13036

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-F4

<400> 13036

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caaacaaagg tttttaaca ccacaacctg gctcgacaac caaacagatt catgcaagca 180  
gaacaatatt tctcctcct 199

<210> 13037  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-G3

<400> 13037

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cggacgcact tgatggctgg cagcatcggc gtcgactcca tggcgggggg gttccagtgg 180  
atcatgcaga acgaaggggtg gaccggcctg ttccgcgga acgcggtcaa cgtactgcgc 240  
gttgctccaa gcaaggetat cgagcatttt acctatgaca cggccaacaa gtttctaacc 300  
cccaagggtc actagccgcc caagatgccg atccccactc 340

<210> 13038  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-031-Q1-K1-H10

<400> 13038

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tcatcacttt ctgatgttaa caagttggtc aaggagatcc ggtctgatgt ttctgaagta 180  
gttgacgtg acgagtttga gtacaaggat cctgttgatg gctctgtgtc caagcaccag 240  
ggcatccgat acctctttgg agatggttca cgactgggtg tccgctctc tggaaccggg 300  
tctgttggtg ccaccatccg tgtctacatc gagcagtacg agagggactc ctctaagacc 360  
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atgcaag 427

<210> 13039

<211> 393  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H2  
  
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 cgcaaccatt ttoccacaat gtcacaagc tcctatagct tcccttcttc ccccatacct 180  
 ctcaccagcg gtgtcttcag tgtgtgaaaa cccaattggt caaccctaca ggatccaaca 240  
 ggcaatcgca acaggeatct taccattatc acccttggtc ctccaacaac cgtcagccct 300  
 attacaagag ttacctttgg tccatttggg ggcacataac atcaaggcac aacaactaca 360  
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<210> 13040  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-031-Q1-K1-H7  
  
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 gcaagcgcca ctagtgcgac ccatattcca gggcacttgc caccagtcac gccattgggt 180  
 accatgaacc catgcatgca gtactgcatg atgcaacagg ggcttgccag cttgatggcg 240  
 tgtccgtccc tgatgctgca gcaactgttg gccttaccgc ttcagacgat gccagtgatg 300  
 atgccacaga tgatgacgcc taacatgatg tcaccattga tgatgccgag catgatgtca 360  
 ccaatgggtct tgccgagcat gatgtcgcaa atgatgatgc cacaatgtca ctgcgacgcc 420  
 gtctcgaga ttatgct 437

<210> 13041  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A1

<400> 13041

cccgcctcgac ccacgcgttc gagcaagtca acttgtggag ggtgctttga ccacggcaca 60  
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tatggcacta ctagtttgaa cctcatgccc agctactgta gatctgatcc agcattcctt 180  
attctgcatt gtctcctcat tctacaagtg acttgtatga atctcacggg cctaactgag 240  
aatctttgtg agcttgatcc agatcctaag atcttgatcc taaaca 286

<210> 13042

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-A6

<400> 13042

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aacaggcaat cacagcaggc atcggacctt tatcaccctt gttcctccaa caatcatcag 120  
ccctattaca tcaattacct ttgggtgcatt tattggcaca aaacatcatg gcacaacatc 180  
tacaacatct cgtgctagca aaccttgctg cctacgtca gcaacagcag ttacctttgg 240  
tgcaattgtt ggcacataac atcatggcac atcaactaca acaactcgtg ctagcaaacc 300  
ttgctgccta ctctcagcaa cagcagtttc tgccattcaa ccaactagct gcattgaact 360  
ctgctgctta tttgcaacat caacatctac taccattcag ccagctagct gctgcctacc 420  
accagcaatt tcttccattc aaccaactgg cag 453

<210> 13043

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B3

<400> 13043

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cattgaaggg ataaaacgcc ctccaagggtg tggagctcta attgagagca gtacatacaa 120



gggcatgtac catgccctaa aggacattgt cccaaaggac ggatttggag gcctttataa 180  
 gggccttttc ccctcttttg tgaaatcgac ccctgctggt gctgtgacat ttgtggcata 240  
 tgaatacatc tcagactggt ctagagtcaa tactgatgtg aaaatcttca atgcagatac 300  
 tgagcaaggc tggatttgag tgacttcttg atggatcatg gaactatcaa tacaccatga 360  
 cgagaacttt ttgcacaccg tggacatgga cgatggagac cgca 404

<210> 13044  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-B8

<400> 13044

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 ataattttttt aaccgcgtcg atacgatcca ttgaagaggt gacttttcca ggattcatct 120  
 actgcttcta cataggtgca ccaagtgaac tcatactgga cattggaata ggtgacataa 180  
 aagccaattc atacttaaag tatatggaga tctggaacaa attatgactc cgaccgacat 240  
 agacgatcca agattactta cgcgtgcatt ctacgttata tttattctat aatgccacct 300  
 aaattaaatt cactgtccgt tggtcgacaa cgttctcact gttaaaaccc ttgcgtacct 360  
 tacttaatcg ccttt 375

<210> 13045  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-C12

<400> 13045

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 gccaaaggcc actacaccga gggcgccgag ctcatcgact ccgtccttga cgtcgtgcmc 180  
 aaggaggccg agaactgcga ctgcctcaa gggttccaag tatgccactc cctgggtggc 240  
 ggcactgggt ctggcatggg cacgctgctc atttccaaga tccgggagga gtaccggac 300

cgcatgatgc tcaccttctc cgtgttcccg tcgccaagg tgtccgacac cgtcgtggag 360  
ccctacaacg ccacgctgtc cgtgcaccag ctctggaga acgccgacga gtgcat 416

<210> 13046  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D2

<400> 13046

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tgtactgaat catgtggatg tgaagcttgg cataacaagc cacaattgca aggtactctg 120  
cggatggcaa cagttttacc tctgaaacct gtccaaacat tcgaagctgg ccaagatata 180  
gtggaacaag tcataaggct tcctatggat cttattagaa gaaaatgcac atgcaagaag 240  
tcaggctgcc ttaagaagta ctgcgactgc taccaggag gggcaggatg ctccatcaac 300  
tgtaaatgct atgattgtag aaaccattt gggagaaaag tcggcggttat tttggacggt 360  
aaaagcaatc ttactgcacc tatactgcac gaaagaaacg gtactgaagt tgactcaag 419

<210> 13047  
<211> 150  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D5

<400> 13047

tccggaattc ccgggtcgac ccacgcgttc gcggactcct cggcggacgc atctgctgac 60  
gcttctgccg tcgcttagga acccatcggt gctgggtgcc tctcttagat tgcttatgag 120  
ccatagctca atcttaaaga tttgctgctg 150

<210> 13048  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-D8

<400> 13048

aattccccggg tcgacccact cgtccgaaga tctgttatat catgtgagcg gcttgccctcc 60  
acatgatata acagatcgga ttgtgggtcca tgaacaccgt ggtcaacctg atggttttgat 120  
tgtctcccat ctaccacatg gtccaactgc atactttggg ttgtcfaatg tggtagacacg 180  
tcatgatatc aaggacagga agactatggg caaaatgtca gaagcttacc cccatttaat 240  
actggacaac ttctcaaccc agattggcga aaggactgca actattctga agcacctctt 300  
tcctgtccca aagccagatt caaagcgaat aattacattt gctaacagag acgattacat 360  
ctcttttcagg catcatgtat atgaaaaacc aggtggcccc aaatcgattg acctgaatga 420  
ggtcggcccc cggttcgagt tgcg 444

<210> 13049  
<211> 230  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E11  
<400> 13049

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aaaaaaaaa aaaagggaaa attaaaaaaaa aaaaataaaa aaaaaaaaaa aaataaaaaa 120  
aaatttttta attaaaagcg tccgttctat agtatccaag cttacttaca cttctttgct 180  
acttcatacc ttttttattg tgtcacctaa attaaattca ttgtccttct 230

<210> 13050  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-E3  
<400> 13050

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ccccgagggg gacaacatgc tccactgggt gggcaccatc gggggatccg cggggactgc 120  
ctacgagggc acctcctacc gctcgcgct ggccttcacc gccgagtacc cgtacaagcc 180  
gcccaagggtg cggttcgaca cccctgctt ccacccaac gtcgacgtgc acggcaacat 240  
ctgcctggac atcctccagg acaagtggc ctccgcctac gacgtgcgca ccctcctcct 300

ctccatccag agcctgctcg gagagccgaa caacgactcg ccgttcaaca cgcaggcggc 360  
 ggcgctttgg gcgaaccagg aagagttcag gaagaagggtg gagaagctct acaaggccgt 420  
 cgcgtagagg aca 433

<210> 13051  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-E5  
 <400> 13051

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 cgtcgcgcca cgcgtccggg aaaaacgtgt tgggtccaag aaaccaattg ttgtgaagta 120  
 tggccttaac catgtgactt acctcattga gcagaacaag gctcagctcg ttgtcatcgc 180  
 tcatgatgtg gatccgattg aactggttgt ttggcttcca gccctgtgca ggaagatgga 240  
 ggtcccatac tgcattgtta aaggaaaggc tcgccttgga tcgatcggtc acaagaagac 300  
 tgcacagtc ttgtgtctga ccaactgtcaa gaacgaggac aagcttgagt tcaacaagat 360  
 cttggaagct attaaggcga acttcaatga caagtttgat gaagtcagga aagaatgggg 420  
 gaggtg 426

<210> 13052  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-032-Q1-K1-E6  
 <400> 13052

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 tagtgtacca acaacggcag ctaaaatatt ctgcctcctt atgctccttg gtctttctgc 120  
 aagtgtgct acggcgacca ttttcccaca atgctcacia gctcctatag ctgcccttct 180  
 taccctgtac ctatcaccaa cgggtgtcttc agtatgtgaa aaccaattc ttcaaccgta 240  
 caggatcaa caggcaatcg cagctggcat attaccttta tcaccctcgt tactacaaca 300  
 atcatcagcc ctattacagc agctaccttt ggcgcattca ttggcacaaa acatcagggc 360

acaactacta caacaacttg tgctagcaaa ccttgctgcc tactctcagc atc 413

<210> 13053  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F3

<400> 13053

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ctacctagca actactcagc atggatatct accaagatat tatcccttct ttcgcttttt 120  
gacctgtcag cgagcgcaac atatgcattc attattcctc aacgctcatt tgctcctagt 180  
accattatac cacagttctt acgaccatta tcttcaatgg gcttctaaca cctatctctg 240  
catgcctaca agctacaaca tgcacttgct tcgagcgtgt 280

<210> 13054  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F5

<400> 13054

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acaaagaata caatgccata tgtcaaataa tcacttttct agggcaatat agaacacatg 180  
agcttcatac atatgacctc ctggctatta ttggacagtc agttgaaagc gaaagtgttt 240  
caatgctaatt gtaggatcat ttgctagct tatcaacttg ttatttaaga agacggctcg 300  
actctctgca gaaagcttgt attatcataa tgattatcga cacatatctt at 352

<210> 13055  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-F6

<400> 13055

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agctgaatag ctctatctgc atgcagttgc taacacgaca atgatcactc aatggtcaca 120  
agctcctata gctacccgta ttcacgcata ccttccatca atgatatgctt cagtatgtga 180  
aaaccagca tcttcagccc tataggctcc aacaggcaat ctcagcacgc aacatacctt 240  
tatcacactt gttgttgcaa caatcgccag tcctatctac ggtgcagtca ctggcacaaa 300  
ccatcatggc acagcacctg cagcaactag tgctacctgt gatcaaccaa gtaactctga 360  
caaacctttc tg 372

<210> 13056  
<211> 136  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-F7  
<400> 13056

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tttagtagag tgagagtgat tcatgtatta gtagacaagg ggaaatgggt aatgttgctc 120  
aagggatcga tgcggc 136

<210> 13057  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-032-Q1-K1-G5  
<400> 13057

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gctgtgtttg cttagtgtcg gagaaatacg agaagcgtg gggctttggt actatatact 120  
cacccaaatt ttcagtgtg cttgacgcgt gataagttcg gagataacac gctcatagtt 180  
taagacctgt ctgactactg gcagaacatg acatcatttg attttctgtt catagttggg 240  
aaatcttggt ttgtttcgga ctaatgcttg ttccatggat ttttaacgaa tacatttagg 300  
gtctgttctt ctaatgttaa ttcagtgtga ttggaagagg ttgaggcctt ccgtttctcc 360  
agcattagat ccagaattgt tccagctgat caaatcttat atattttaga taagcaatcc 420

ggctggtaaa tcgttt

436

<210> 13058

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G6

<400> 13058

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catggtgtca ccaatgatga tgcgaaacat gatgactgtt ccacaatgtt actctgggttc 120  
tatctcacac attatacaac aacaacaatt accattcatg ttcagcccca cagccatggc 180  
gatccacccc atgttcttac agcagccctt tgttggtgct gcattctaga tataagcatt 240  
tgtgttgtag ccaataatga agtcggcatg ccatcgata ctactcattg tttaggaata 300  
aaacaagcta ataatgactt ctctttcatt ataact 336

<210> 13059

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-G8

<400> 13059

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ggccgtcgac aggggaatta atggcgtggg cgtctagcag cagccaccgt cgtctcatcc 120  
tcgcagccgc cgtcctgctc tccgtgctcg cggctgccag cgccagctcc gggaccttct 180  
gcgtgccggg gtgggccatt ccgcacaacc cgctcccag ctgccgctgg tacgtgacca 240  
gccggacctg cggcatcggt ccgcgccttc cgtggccgga gctgaagagg agatgctgcc 300  
gggagctggc ggacattccg gcgtactgcc ggtgcacggc gctgagcatt cttatggacc 360  
gcgcgatccc gtcgggcccg gacgcgcata tggaggg 397

<210> 13060

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-032-Q1-K1-H4

<400> 13060

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atgctgggat tcatagagaa gattggatta aaaatggtgt ccacatcggg agtggcagaa 180  
aatataagga ttctatTTTT cttcaggcgc aagtaatgtg ctacttcaac gtataacaat 240  
atcttatatt cgagctacac acgaagactt gcacttatac aggttggtcg accgtccaaa 300  
ccatcctaga atatgattgg tggactgcga ttaaattgcy tacatgatgc atcagttcta 360  
tgcatgctcg ctgctgtctg ttcggaggtc atcaactcgg gacctggact aaggtgcctg 420  
tcgttcgctc aaccctatg aaaaagtttg 450

<210> 13061

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-032-Q1-K1-H8

<400> 13061

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tactacatct ccacgacctt gtgatggggg ggggctcacc ttcacgaagc tcttcagccg 120  
gctcttctcc aagaaagaga tgaggatcct tatggttggt ctcatgcag ctggtgaagac 180  
caccatctc tacaagctca agctcggaga aatcgtgacc accaatccta caatcggggt 240  
taaattggga aactgtgaat acaagaacat tagctttact gtctgggatg gtggaaggca 300  
ggacaagatc aagccattgt ggaggcacta ttncaaaac acccaaagcc ttatcttttg 360  
tggtgatagc aatgacagag atcgtgctgt tgaagcaaaa gatgagctcc acaggatgct 420  
gaacgaggat gaattgangg atgctgtctt gcttcgtttc g 461

<210> 13062

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A6



<400> 13062

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ttttttttct tttttttttt ttttttgtga ttgcacaaac aaatcccaat cccctttaat 120

tattgttccg gatgaaccat cctagaaatg ctttaatctt tttgctcgcc ttattattta 180

aacatatgaa ctagcttcaa gctcattcct catgcactat actctttgca attacttgga 240

gggcatttt 249

<210> 13063

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-A7

<400> 13063

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cgccctccga ctgctggtgg gctgtcggca ccggcgctc caaactccat gtgctgaggg 120

ctacgccagt gtcttctacg actacgagca cgttctatca ccaaaccatga tgtctgaaag 180

aagtcaacat gctgaaccat agatcgataa cctcagtaaa tgttaccatg cagtcctcat 240

aggaaggatc cacgatgatg acctggatgt ctcaaatttg gaattcggtta aaacagcttt 300

taccttgacc atgtgaaagc tggtaacttg aatggttaca cgtacctttt ctttgagact 360

agggtagcta ttatagaatc ttccttatgc tcatacttct gcgccttttc 410

<210> 13064

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B1

<400> 13064

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acgagatctg aagcttctc acgggtccgg ctccgacttc aagtatcggg cttacatcgt 120

cagcagcata gccaaactcg gctctgattt tgaggttgat atgtatgatg atctgctgga 180

tgtggtcact gaagatgatg atgctgattt cgatgacatg gatgatttcg atgatacagt 240

ctcagatgga ggcattgtacg atgatgactt ggatatctga aattaggaat cggttcaaac 300  
agcttttccg tggaccatgt aagtgtgtt agctggaatg gtttaccgtc ccttttcttt 360  
gagattcggg tagctatgat ggaatctccc tgatgttcat acttctgcgc ctctccattt 420  
gtaagaagct ggagtaactg aactggttct aatcgat 457

<210> 13065

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-B11

<400> 13065

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cactcgatgc cgccggagaa ggcgagggtg ttccgctcgc tggagggctg ggcggcgcgg 180  
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gactcctcgt ccgagatgtt ctggcacgag gtccgcgagc tgcgcgcccc tgccgtgggg 300  
cttcccgaact agtacttcgt cgagctcgtg ggcgacatgg tcaactgaaga agcgctagcc 360  
acgtaccaga ccatgatcaa cacgctcg 388

<210> 13066

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-033-Q1-K1-C11

<400> 13066

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gttctaagct gctgggatac tctgcagggc aaggagaaga tttggtggcc ctcaagtggat 180  
aggataccta tagtccatgg ccaagtgtgt cgatcatnca tcgtttgatg taactctcaa 240  
gggcttactt acacagaatg gttcctaacg tggcataggg aactgtgca gtggtctgtg 300

aaaaccatac tcattgtcct ctgcggtaat aaggttgatg tgaagaacag gcaggtcaaa 360  
 gccaaagcagg ttactttcca caggaagaag aatcttcagt actatgaaat tactgccaaag 420  
 agcaactacg actttgagaa acctatcctg taccttgcaa gga 463

<210> 13067

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C2

<400> 13067

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 tggagctgga catcgattta gtttgggtctg acataaagaa cttaaactctg aaaggcgtcc 120  
 atgttgatac tgctgtcatg aatccttctt ttggtacacg aaggaatgga gcagacatgg 180  
 agttcctctc tatggccttg caagttgctt ctcaagctgt ctattctcta cacaagactt 240  
 ccactagaga acatatcaag aaggcaacct tgcgtggctt caatgccatc agtgcgtgatg 300  
 ttctatgcga gctgcgttac aatctaccgc ggacgtacaa attgcacacg acaaaagaga 360  
 ctgacattgc aaacgatctg tggctctttt gatctaacgc cc 402

<210> 13068

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-C5

<400> 13068

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 tgtcctcaga ctgcacacat ccaactcaac cacttcatcg accactactt cgacaaccaa 180  
 ccataagtcc ttcatgcaa aatcatcctg tatcctgaca cgcaaatgat ccgcatctta 240  
 ggctttacta ccatctgcac atatgatgtg attcaggacg ctatccaggt cattaacccc 300  
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<210> 13069

<211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-C7  
  
 <400> 13069  
  
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 atcatgctgc aacaataatt accatctatg aataacaaa ttgccatgac taatctaccc 180  
 atgctcttac aggaacatct accattagct gcatattaga tagatatatt tgtgtcgtac 240  
 caaataatag atttga 256

<210> 13070  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-D1  
  
 <400> 13070  
  
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 tgccagcgcc tctgcaatgc agatgccctg ccctgcgcg gagctgcagg gcttgtacgg 180  
 cgctggcgcc ggcctgacga cgatgatggg cgccggcggg ctgtaccct acgcggagta 240  
 cctgaggcag ccgcagtgca acccgctggc ggcggcgccc tactacgccg ggtgtgggca 300  
 gacgagcgcc atgtaccagc cgctccggca acagtgtgc cagcagcaga tgaggatgat 360  
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<210> 13071  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-033-Q1-K1-D11  
  
 <400> 13071  
  
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 tcagtatgtg aaaacccaat tcttcaacce tacaggatcc aacaggcaat cgcagcaggc 240  
 atcttacctt tatcaccctt gttcctccaa caaccgtcag cctattaca gcagttacct 300  
 ttgggtgcatt tgttggcaca aaacatcaag gcacaacaac tacaacaact tgtgctagga 360  
 aaccttgctg cctactctca gcaacagcag tttcttccat tcaaccaact ggctgcattg 420  
 aactc 425

<210> 13072  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-E2  
 <400> 13072

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 cagcgtgaa ccgtgcgctc caacttctcg ccgcctgcgc cgatgcgctc aagccagctt 180  
 ctcgtgtatt ccatgccaac ggcctcaata caatgcaatg gcatggccac taggagccat 240  
 actacatcca tgccaagcac atgcataact cgcaca 276

<210> 13073  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-033-Q1-K1-E3  
 <400> 13073

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 ggtgatgagg atacaaacgg ccacggggac gacatgtgct gcttcatcaa accctgtgtg 120  
 atcctgctgt cgtggaccga ccacgtgaag gaccatcatt acgaacggtc tgactaggca 180  
 ctgactgttc tctaccagtc cttttactca aaagggcggc agtccaagt ggtgaagatc 240  
 cacgtccccg ggcctctgta catgacagag gaagaggcac aaggcgtagt ttcacggga 300

cattctgtgc cgaggccagc tggcacgaga taggccgact cgtatcgtaa cttctacatc 360  
gacaatggcg ggatcata 378

<210> 13074  
<211> 241  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-E4  
  
<400> 13074

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gtttttcttg tctcagcccg gggctctgctg cgtctgggtg tggatgaacgg gagaattttg 180  
tgagatctgt tttggatcat gcgtaccatc tcgggaatca cgggtgtcac acgtatcttc 240  
g 241

<210> 13075  
<211> 399  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-033-Q1-K1-E6  
  
<400> 13075

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tacatctca tgacgcggga tcgctgcgtc cccgaccca cttgaaggcc cgctaaaaga 120  
acttgccggc ttgccgccg aagtgcagag ggattcgccg tcacccttgt cacggagccg 180  
agtgaacct tggcaccatc agcggcgctc ccgaatgcc ctggattctc ggcggcggaa 240  
cgatgcctc caagtaactg cgaagagcat agtgcagag gaatgagctt gtagctagct 300  
catatgtctg aataataagc acagcaagaa gatgaatgca tttctcggat cgttcatccg 360  
gaacaataat taaaggggat ccggatttgt tcttgtgat 399

<210> 13076  
<211> 177  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-E7

<400> 13076

acagcagtta ccattcatgt tcaacccaat ggccatgacg attccacca tgtgcttgac 60  
agcaaccctt tgttggtgct gcattctaga tagaaatatt tgtgttgtag cgaataatga 120  
gttgacatgc catcgctgtg gactcattat taacaataaa acaagtttcc tcttatt 177

<210> 13077

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-F6

<400> 13077

tcggttctga attcccgact caaccacgc gtgcgcgcgac gcttgcctacc actcttctta 60  
ccactcgtat gagccttcgc cgcataggga tggactatct catcaatcgc cacatcacat 120  
ctatctctcg atcttaccba tagtggatgt acaacaacta caacacaccc ctaagctgtt 180  
catacgttgt acattcgatc atctacatgt gaacgacata tccctgaacg actaccttgc 240  
tgctaactcg acgaatcacg caatgtacct gccacacacc ccagaacatt actccaagaa 300  
tcgactcccc attgctcagt gcacgatcgt gcagcgcctt aaaaactccc tcatgattca 360  
cggactcaac aaccgcaaga aggtcatatc tgtccgcacg atcaagcata ccctgtagat 420  
catttaaa 428

<210> 13078

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G12

<400> 13078

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cgaccctgtc gagctccagc tccgcgacgc ctggctcaac cgcttggtgg tgcaggcgcg 120  
cggcatggag cgcgcgtcgt gctacgtgct ttccacctgc cgcgtgcgct cctcggcccg 180  
gttctgcacg cacttctgcc tcgcgcgggc gcagtgttc ggcgaccctg tcgagctcca 240

gctccgcaac gcctggetca accgcttggc cgcccgacgg tagccgcccg tcggcagctg 300  
 ctgctactga tactactaat aggattcgat gctccaagga ccaaattgcaa tgatgcctgc 360  
 tcttcgctgg caagaacgag gaagagaagc ttgcagattg gatttgaagc atgggaggcc 420  
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<210> 13079

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-G3

<400> 13079

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 gcagccacca ctgaatcata atgataacgg aagcaaagtt tctgttgacc ttattctaaa 180  
 accatctgaa gatgacctca agtgctggcc acattgtttt gagttccgtc tgaaggccct 240  
 tttttcaaaa gatggggact tgtcattgat atcacgcac aagaatgtca atggcaaacc 300  
 attcaatttc tcatttgta atacacatat ctttc 335

<210> 13080

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H11

<400> 13080

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 gtgctgtac cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcctttcttc 180  
 ccccatacct ctaccagcg gtgtcttcag tatgtgaaaa cccaattctt caaccctaca 240  
 ggatccaaca ggcaatcgca gcaggcatct tacctttatc acccttggtc cttcaacaac 300  
 cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaagcac 360  
 aacaactaca acaacttggt ctaggaaacc ttgctgccta ctctcagcac agcagtttct 420



<210> 13081  
<211> 82  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H12

<400> 13081

ccggttcgga attccaggct acgactcacg cgcacattgc accaagaaat ccatcgtgag 60  
gccttctaca ggggaattaa tg 82

<210> 13082  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-033-Q1-K1-H3

<400> 13082

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agaggaaggg acaaggttat tcgagtaatt gagaagagga ttgcagatta taccttcata 120  
cctgtagatc atggagaggg actccaagta ctgcattatg aagtcgggca gaagtatgag 180  
cctcactttg attattttct tgatgagttt aacaccaaga atggtgggtca gaggatggct 240  
actcttctga tgtatctatc agatgttgaa gaaaggggag agactatttt ccctgatgca 300  
aatgtgaacg tcagttcttt accatggtac aatgagcttt cagagtgtgc caagagaggc 360  
ctttctgtca aaccaaagat gggagatgca cttcttttct ggagcatgaa accagatgcc 420  
accct 425

<210> 13083  
<211> 100  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-A10

<400> 13083

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taattctcaa catctactat accatttttt cccttttttt 100

<210> 13084  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A11  
  
 <400> 13084  
  
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 ctctctgtcg ttctgcctcc caccggcctc gatgcggcga gaggcgcagg cctccacccc 180  
 gccgcgcct cgcgcgctgc tctccctcga cgacctctcc cacctctccc cctccaggca 240  
 gccggccacg cctccgcagg cgaacgacgac cccctcgctc cagccccgcg gtggagccgt 300  
 tctctttctcc tcgccgctgc ggtccaacgg ctgcgccggg ccctcggcgt ggtggacccc 360  
 ctcgagggag gagaatccca gggagggatc accgatggat ggcgtcgtgc agtaccagca 420  
 gcagtccccg 430

<210> 13085  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-A4  
  
 <400> 13085  
  
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 gactgtccag tctgcgatgg gggatgagca gatctgcgcg ttgaaggatg ttggccccc 180  
 gtaacttctt tggctttgga gacggaaccc tactgtatct caacttaa 240  
 gtgtatcacc aaaggattgc taccgagaca ttcacctggc ttgagctggc ttttgctata 300  
 gcgtgcaagg ggttgctggg tgctgtacct acctgactta tcattatctg tggttacatt 360  
 ctggaccctg tattttctat gctttcatgt ctctctactt tctagtatta attatcaata 420  
 agttggtttg gaatgg 436

<210> 13086

<211> 542  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 13086  
  
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 gggcnnngca ctgannnacc cggnnctgct taaatttgca gcnanngcaa atacctttac 180  
 taccannttt agccagctta nngctacagc aannngccgt gccttnnctt tctnntgaca 240  
 cnaaacaaca ngnnttgctg cnnegttcta aaccagcagt nnttgccggt ttaaccccn 300  
 ngcaaccctt tcttaccxaa ctaccaaca attnnngttg cccttttggt cnccaacttg 360  
 gcnnnttgac anannacca gnnagcctc ctttaccac caaccacat cattgnngtg 420  
 gtgcccttct tttagaattg gcttaattag atgtnaattc aatanannta aagttttttg 480  
 ggatgaaatg tatgtggcca tannncagaa ataaaaaggt taaaaatttc cagaattctt 540  
 aa 542

<210> 13087  
 <211> 134  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-B6  
  
 <400> 13087  
  
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 agcttaaaaa cacaaacata caacataata aaatcaacta tgatgtcacc taaatgcaat 120  
 taactgtccg ctga 134

<210> 13088  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-034-Q1-K1-B7  
  
 <400> 13088

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 ccgcactgtc atgagcaagt cacctaaca gcacaaccgt ctgtacatgg aagcgcgccc 120  
 cctggaggag ggtcttgctg aggcaattga tgatggccgc attggccac gtgatgatcc 180  
 taaggtgctc tcccagatcc tctctcaaga gtttgggtgg gacaaggatc ttgccaagaa 240  
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 agtgcactat ctcaatgaaa tcaaggattc tgttggtggt ggtttccagt gggcatcgaa 360  
 ggaggggtgca ctgggtgaag agaacatgcg cgggatctgc ttcgaggtct gcgatgtcgt 420  
 tcttcatgct gat 433

<210> 13089  
 <211> 86  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-B9  
 <400> 13089

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<210> 13090  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-C1  
 <400> 13090

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 ggcaaaaaac ttaaagcaac agagtgttca agctaattgtt ttggtgctag aaaaggcttt 120  
 aatgcatcag gcttgtgttc ctgtgttga taatgcttag agaagtttag cagtgataat 180  
 gcttcactat tcgaaaatca gtaaaaagtt tagaccattt atgtgacatt tttggatagt 240  
 tcctatgttg tgttgcaacc attaaactata ttaactgtat attttcacat ggtgggacag 300  
 atagaggact tcatagtgtt cattcgaaaa aaaaaaaaaat aaatatgaac aattaatata 360  
 aaaaatatgg at 372

<210> 13091  
<211> 163  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C3

<400> 13091

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ctaaactgat tttgatggaa caggaaatct tgctgggtctt gcc 163

<210> 13092  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-C9

<400> 13092

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agctaaagga aacgattcct tggatctgtg gattaccagc aacttcaagg aatctaagag 180  
caatgatgtt gcgagaacta atgcctgatg tgatggatgg caggattttg ccagttttga 240  
tcaagctcac agaattacta aagctcatgt ggaaggacat gttctaaaag atccttcagg 300  
cgctgaaact ttggacttat gggcctcaac tcatgttaat gaaaagaacc ttgaacagat 360  
acgtgaacat aatgatctat tcgatgactg gcac 394

<210> 13093  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-034-Q1-K1-D11

<400> 13093

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 tgttgttcct aaggatgtca acgctgcagt tgcaaccatc aagaccaaga gaactgtcca 180  
 gtttgtggac tgggtcccca ctggattcaa gtgtggcatc aactatcagc caccctctgt 240  
 tgtccctgga ggtgacctgg caaagggtcca gcgtgccgtg tgcattgatca gcaacaacac 300  
 cgccgttgcc gaggtgttct cagcatcgca ccacaagttt gaccttatgt acgccaagcg 360  
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 t 421

<210> 13094  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-E1  
 <400> 13094

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 ttccgcaaaa aaatttcgtc aacagtggaa ggtataccca tggcaaaact actcttgggt 120  
 ttgctccttg cccttgctat tctagggaca acatcggtcg ctggttgtgt acaagacgcg 180  
 gaagacatga aacgagagtg caagcagttt gagctattcc cagcgaacct aaagttgcca 240  
 ccgtcggcag catgttgtgc tgtgtggaag atggcagatg ttccatgcct atgcaaatat 300  
 gttaacaagg aagtagagaa ggtatggtcc atggagaaaag ttgtgtacgt atccaactat 360  
 tggaagagggc cgtttcaacc ttgctacaag ttctgtaatt attcaatttc ttttatta 418

<210> 13095  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-034-Q1-K1-E10  
 <400> 13095

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 ttaacggggg cccaaacctg caaaggccat ttccatccaa atcgccgaga aggggaagcc 120  
 aaatcgatgg cggcggcggc ggccggcggc gagaacagcg gcgcgggcgc ggtcgcgggc 180

gagggcgagt tctacctgcg gtactacgtg gggcacaagg gcaagttcgg gcacgagttc 240  
 ctcgagttcg agttccgccc cgacggcaag ctccgctacg ccaacaactc caactacaag 300  
 aacgacacca tgatccgcaa ggaggtcttc gtcttcccct tcgtccttcg cgaggccagg 360  
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<210> 13096

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-E2

<400> 13096

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 tgcgccggtc caactgcgcc aacgtatgca agaccgaggg gttccccggc ggcaggtgcc 180  
 gcggcttccg ccgacgtgc ttctgcacca cgcactgaca ctgattcgct cgcccagcgg 240  
 ccggctggcg tcgacgtcga tcgcgcgcgt cgcgaccagt ccatggctgc atgcatgaat 300  
 aacaaggggtg tgcagttcgt gatgccaaat tgtatgctct cgtcacgtgt tgaagcgttc 360  
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<210> 13097

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-E6

<400> 13097

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 ngaattgaga tnttggtcca aaagatctgg caaacaaca aggtgcgtgt tgtccgcccgg 180  
 gacaactggt gcaaaagggt gacattccct gtgaccaatt tggttgaaga ggttaaagtg 240  
 ttactggatg agattcaaaa aaatctgttc aaaacagccc aagaaaagag agatgcctgt 300

gttcatgtcg tgaacacttg ggatgaattc acaactgctc tgaataacaa aaagttgatc 360  
 ttggctccat ggtgtgatga agaggaaatt gagaaagatg taaaaactcg gacaaaaggg 420  
 gaaacttgga gctgcgaaaa ca 442

<210> 13098  
 <211> 68  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-G11  
 <400> 13098

cccacgcgtc cgagcatgtg cacttttatac tatttatttg gtaccatctt gctaaaggaa 60  
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<210> 13099  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-G7  
 <400> 13099

aatctcatca attttcttgt aaaaattcct atggattgct ttcctccgta caagttagag 60  
 aaaaataaca aaaggattgc aattcacagc cacctctaata tcgagtacgg aagaagccac 120  
 ctgcagctgc agagatcctg aagctcaact gcgatgcttc acaatcggcg tgattgggttc 180  
 ctacacccat aagagccggg ctgcgcgcca cctgcacccc agtcaatgct tccactaagc 240  
 ctgcgcacag ctagccaagc tatcaatcat gcgatatatg cgttcattac aacataaacac 300  
 tgttcattac aacataaacac tctgaacata tgcaagccat cagttttcac cgttttcacca 360  
 tcctaattgtg ggtctttatt gacccgagtg tactggacta ag 402

<210> 13100  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-034-Q1-K1-H11  
 <400> 13100



cacgcgtacg atgacataca aatccctggg atgataaatt cttcgactag cagcgcagag 60  
 ttcttgcgca cggtgacagt gaattattgg agctgcta atctgtgaagg gcattatctg 120  
 aactgacatg gccagcaact ctgaataaga gagacatatt cagggaagta ctcatggata 180  
 ttgacctt atcactctca aaattaagt acaataagat tatagtacct ggaagccata 240  
 tcataccatt gatatccgta cataatctga gccgtgttat tgatatcgca caccactac 300  
 tgatgatcat atacgaatac gcatcgctg acacatactg ccgtatccta ctgaatcaca 360  
 tgcttatatt g 371

<210> 13101

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-034-Q1-K1-H2

<400> 13101

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 acctcgcttc cgctcccggc tccctccgg gcaggcacac atcgctccgtt cgctcgccaa 120  
 gagacaggac cggagaccat ggcgaccag ctcaccgacg accagatcgc cgagttcaag 180  
 gaggccttca gcctcttcga caaggacggc gacgggttgca tcacaaccaa ggagctcgga 240  
 actgtcatgc gatcactggg tcagaacca accgaggctg agctccagga catgatcaac 300  
 gaggtcgatg cggacggcaa cggcaccatc gacttcccg agttcctcaa cctcatggcc 360  
 cgcaagatga aggacaccga ctccgaggaa gagctcaagg aggcgttcag ggtgttcgac 420  
 agggaccaga acggcttcat ctctcgggcg gagctncgnc acgtgatgac c 471

<210> 13102

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-034-Q1-K1-H9

<400> 13102

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 tggctcttct gcaagtgtg ctacggcgac cattttcccg caatgctcgc aagctcctat 120

agcttccctt cttccccgt acctctcacc agcgggtgtct tcggtatgtg aaaacccaat 180  
tcttcaaccc tacaggatcc aacagggaat cacagctggc atcttacctt tatcacccctt 240  
gttcttccaa caatcatcag ccctattaca tcagttacct ttgggtgcatt tattggcaca 300  
aaacatcagg gcacaacaac tacaacaact tgtgctagca aaccttgctg cctactctca 360  
gcaacagcag tttcttccat tcaaccaact agctgcattg aactctgctt cttat 415

<210> 13103

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-A10

<400> 13103

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tatcaacaat agagcaacaa tggcggccaa gatgttttcc atccttatgc tccttgctct 120  
ttctgcatgt gttgctaacg cgaccatttt tcctcaatac tcacaagctc ctatagctgc 180  
ccttcttccc ccataccttc catcaatgac cgcttcagta tgtgaaaacc cagcccttca 240  
accctacagg ctccaacaag caatcgcaac aagcaactta cctttatcac ccctgttctt 300  
tcaacaatcg ccagccctat ctttgggtgca gtcattggta caaacatca gggcacaaca 360  
gctgcagcaa ctctgtgtac cagtgatcag ccaagtagct ctggcaaacc tttctcccta 420  
ctctcagcaa caacaatntc ttccattcaa c 451

<210> 13104

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-A5

<400> 13104

accacgcgt ccggaccaag gagatgaaaa gatagaatca cgaggcctgc gcagagtcct 60  
gagccgctgc gaccgtacgt gactgtacta cggctcttgca tcggacggag ctggcatgca 120  
ctgggtgcct atactactct ggacogctaa cgtcccacgg ttacaatcga tttttcgttt 180

ggatacgtgg atgcatccgt cagagtctct aactacttag acgtatgaac ctactgacga 240  
 ggctactgag cacactcatt accgcaggca tttcaggtag gcatgtacta catactgcat 300  
 gtacttagac acatatgaca gtcactatct tgagagcgag ggctatactg tgctgacata 360

<210> 13105

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-B10

<400> 13105

tgaaagcttc agcttcgggt tgcaaggatg agtgggtggt ctgtcgtgtg ttcaacggga 60  
 ccaccgggat caagaagacg gctgcgccgg cataccagggt ggccatggcc ggtgctgaga 120  
 tggatcagaa tcagaacaac attccggcca tccccatccc catgccgctg cagctgccac 180  
 tgcccgtgcc catgcagatg caatttccca tcctgccaga ttttgtcatg gaccgggtgg 240  
 cccctacta ccccaacca aatgccggcg ccgggatgat gccgcctatg gcggccggta 300  
 ttggcggcgc cggcgggctc cagatcaacg gcgccctgtt cggcaatccg atgccgcgc 360  
 cgttgccgat gaacttctac caccaccaga tgggcatggg ggcagcagct 410

<210> 13106

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-B6

<400> 13106

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 ctttctgcaa gtgctgttac gacgaccatt ttcccgcaat gtcacaagc tcctatagct 120  
 tctcttcttc ccccatacct ctcaccagcg ttgtcttcag tatgtgaaaa cccaattctt 180  
 caaccctaca ggatccaaca ggcaatcaca gcaggcatct tacctttatc acccttggtc 240  
 ctccaacaat catcagccct attacatcaa ttacctttgg tgcatttatt ggcacaaaac 300  
 atcagggcac aacaactaca acaactcgtg ctagcaaacc ttgctgccta cgctcagcaa 360  
 cagcagttac ctttggtgca attgttggca canaacatca gggcacaaca actacaacaa 420

ctcgtgctag caaaccttgc tgcctac

447

<210> 13107

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-C8

<400> 13107

taccggtctc ggaattaccc ggggtgcgact ccactgccgt ctcgcccacg cctgtccgcc 60

tcacgcctgt ccgc 74

<210> 13108

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-D8

<400> 13108

accggttcgg aattccccggc tggacccacg cgtccggatt gaggatcggg ttgaggagga 60

atgttacagt gaggcttcag aaggagatga tgaggcagat gatgcttata ggcagtagga 120

ggccatggga atgcagtgtt gttagtggct cttctgcttg tagttccatt tgtccctggt 180

caagtgttgc ctggagaact ggcagagaaa tttggttgac atcgaacaat ctgacttcgt 240

gcggctcctg accctgggtg gaagtgttcg cttcagctaa aacagctcca gctgcggcct 300

ctctctgcag atcattgtag catcagcagc gctgccaaagg gattagttgt tgcacccat 360

gatgcaacca taatatgttc atgcagcaac tcagttcagt tgtactgttt gactcgagaa 420

atgtaacacg ctgtactgtt aaaccagggtg atcctattgg tgtctcggcg tccaagttc 480

tgtgacactg 490

<210> 13109

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-E10

<400> 13109

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 tgtgcccttg atcacattta tttttctaataat aatgttcttt ataattattt attcatgcat 120  
 aggcttaatt ttgatgggtc ccaatagggtc ccaatagggt agttttgcta ttgcattatg 180  
 tggttttggg attaatatta cattatatcc atgttccaat tattatgtta tgttatttat 240  
 gttcatgtca agatcattat ctttaattgg aacgtggagc ttaacttggg aaacatgtgc 300  
 caccacaagg gtggaatggg acgcccttgg ctaactaatt aggaaagcta gtggaagact 360  
 accttaccgc aaagggggcaa gggcagtagg ggagttgcac gcaagga 407

<210> 13110  
 <211> 498  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-035-Q1-K1-E7  
 <400> 13110

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 ggggtattcag tgtgcactag caggtaggaa ccttgacatg aggttcactt gtagtactgg 120  
 agatgccatg ggaatgaata tgggtgtcaaa aggtgttgag gatgtcttgg gctacttgca 180  
 gaatgatttc cccgacatgg atctcatcag cctatctggt aactattgtt cagacaagaa 240  
 ggctgcagct gtaaactgga tagaaggctc cgaggaaatct gttgtttgtg aggccacagt 300  
 caaaggggga gttgtgcaga gtgttcttaa gacttctgtg caaaaactta tcgagcttaa 360  
 tattgtaaag aatctcgtg ggtcagctgt agccggagct cttggagggt tcaatgcca 420  
 tgcaagcaat atcgtaactg ccctgttcat tgctacggng caggatcctg cccaaaatgt 480  
 tgaaagctcg cagtgcac 498

<210> 13111  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-035-Q1-K1-F7  
 <400> 13111

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cagggcggctg caccatcggc ggggtagcat ctgtgctaca agggctattg caatggcctc 120  
ttcacagttc gtcggcggca acgcgttccg tctctcggtc gcgcccattg acctcttact 180  
gaaactgcac aagggcgaca tcacctctg gtccgtccac tgcgccaccg acaccatcgc 240  
taatgctgct aatgagccaa tgttaggtgg cctatgtgtt gatcgaacta tacatcacgc 300  
tgctggacca tagctagtgc aagcatgcct gaaagttcca aatgtcaaac caggagtccg 360  
tttgctact ggagaagctc ggattacttc tgctacagag cttgctgct ctcgactgat 420  
tcacactgtt ggacctatat atgatttga c 451

<210> 13112  
<211> 123  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-F9

<400> 13112

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gagcttacaa acgacaggca tgcaacacaa tacactataa tataacgaaa cctaaattca 120  
ttt 123

<210> 13113  
<211> 479  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-035-Q1-K1-G3

<400> 13113

cccggactta ctggctggac ccacgcgtgc gtacgatcag tacaatccct tcagatttgg 60  
ccaaaaatgt gaagatcttg caccctgatg tggggaataa ctttattgag aggagtccag 120  
atttgaaggt actttctgaa ttgcgtact tgaggaacct taatttgcag ggaaatccctg 180  
ttttcaagaa agacagtctt gtcaaaaagg ttaagaaatc tgtgccacc ttgcgcatac 240  
tgaacgcaaa gcccttagag gccacctcca agagtgatac gaggtctaca aaagagaatc 300  
ctcctagcaa agatgaagac ccattggga ttgatgcaaa gaaagataaa aggaagggat 360

ctaaacaaga ggtaaagggc cttgaagagc ttgaagtcca gagtgtttct acaggatatca 420  
ccacttcgaa ccctggtaaa cttgaagtgc cagacggtaa ggaaaagaaa aagggtcaag 479

<210> 13114

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-G8

<400> 13114

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gttacaacaa ccaatttccc agttgcaaca gcaagccttg gcacatctaa caatacaaac 120  
catcgcaacg caacagcaac aacaattcct accagcactg agccacctag ccatgggtgaa 180  
ccctgccgcc tacttgcaac agcagttgct tgcacaaac ccacttgctc tggcaaacgt 240  
agttgcaaac cagccacaac aacagctgca acagtttctg ccagcgtca gtcaactagc 300  
catgggtgaac cctgccgnet acctacaaca gcaacaactg ctttcatcta gcccgctcgc 360  
tgtggccaat gcacctacat acctgcaaca acaattgttg caacagattg taccagctct 420  
gactcagcta gttgtgc 437

<210> 13115

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-035-Q1-K1-H2

<400> 13115

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ttgcaagttc aatctcacct ccaaccatgg gtgagagaga agtcccacat caacattgtg 120  
gttattggcc atgtcgactc tggcaagtgc accaccacag gacaccttat ctacaagctt 180  
ggaggcattg acaagcgtgt gatcgagagg tttgagaagg aagctgctga aatgaataag 240  
cggtccttca agtacgcgtg ggtgctcgac aagctcaagg ctgagcgtga gagaggatc 300  
accattgata ttgctctgtg gaagtttgag accaccaagt actactgcac ggtcattgat 360

gcccctggac accgtgactt catcaagaac atgatcactg gtacctncca ggctgactgt 420  
gctgtcctta tcattgac 438

<210> 13116  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A10

<400> 13116

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ttttttttgc catgtaggga cccatattct aaaggagtta cattaagatc cctcaaaatt 180  
tctgatttgc cgggtactgt taacattgtt tacatgttat ggggttttctt cttgcatgct 240  
aactctcagt aacacctctg tgatgtactt gcagtcattt ttttggttgg catttttggg 300  
gctcattgat gattaaaata tggcatgcca ttctccactg tttctgcttt atagccatgt 360  
ttttaggagg gcagacctag tgccggagag gctcccacat gaagtgggtc tggagaaggg 420  
ataaac 426

<210> 13117  
<211> 419  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-A6

<400> 13117

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gagacggatc ttgcatatct gcagaagaag aaagatgagg aaaaagcact gaaggagctt 120  
aaggccaagg cacagaaggg cgcgattggg ggctcgggtc tgaagaaaag tggaaagaaa 180  
tgagactggg caccctctc caatacctag aggatgataa ggcagctgtc tatctgtgtt 240  
gcgcttcact aagtgtgatt gtaacagtgg tacctcttgt gttctgtgtt ccgcgatgtt 300  
gcagttgggt gcttgatcga aagatgtttc aacctcccat ctgctagcta tgatacagat 360  
ggtcccctga taataatgat gacatattct gtgatggatg ccacagcatt ntttgtttt 419



<210> 13118  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-A7

<400> 13118

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 atgctccttg gtctttctgc aagtgtgct accgcaacca ttttcccaca atgctcacia 120  
 gctcctatag ctctctttct tccccatac ctctcaccag cgggtgtcttc agtatgtgaa 180  
 aaccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat cttaccttta 240  
 tcacctttgt tctccaaca accgtcagcc ctattacagc agttaccttt ggtgcatttg 300  
 ttggcacaaa acatcaaggc acaacaacta caacaacttg tgctaggaaa ccttgctgcc 360  
 tactctcagc aacagcagtt tcttccattc aaccaactgg ctgcattgaa ctctgctgct 420  
 tatttgcaac aacaactacc attcag 446

<210> 13119  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B2

<400> 13119

agaagagacg ctgatctact tataggtcgc agttgacggg gtagctgggtg gttttgccgg 60  
 gaggaactct tggtagtttg agctgtgcga aagcttttaa gtttacattt actcaccact 120  
 ccatgaacgg caacgaagta ttcacagtt agaaaagtgc acctataatt ttggttgctt 180  
 ataactttct atttgtcaga gatttaactc gaaggacctg taactaggaa agttaatttt 240  
 gcttggaata 250

<210> 13120  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-B8

<400> 13120

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tttccctcct tatgctcctt gctcttttcta catgtgttgc taacgcgaca attttccctc 120  
aatgctcaca agctcctata gcttcccttt ttcccccata ccttccatca attatagctt 180  
cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240  
acataccttt atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac 300  
tggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360  
tagctctggc aaacctttct cctactctc cgcaacaaca atttcttcca ttcaaccaac 420  
tgtctacact gaacctgct 440

<210> 13121

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C10

<400> 13121

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cttatgctcc ttgctctttc tgcattgtgtt gctaacgcga ccattttccc tcaatgctca 120  
caagctccta tgtgaaaacc cagctcttga acctacaggc tccaacaagc aatcgcgga 180  
aacaacttac cattatcacc cttgttcttt caacaatcga catccctatc tttggtgcag 240  
tcattggtac aaaccatcaa ggtacaacag ctacaaaatc tcgtgctacc tgtgatcagc 300  
caagtagctc tagcaaacct ttctccctac tctcagcaac aacagtttct tccattcaac 360  
caattgtcta cactgaacct tgctgcttat ttgcagcaac aacaactact accattcaac 420  
tagctagct 429

<210> 13122

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-C5

<400> 13122

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tagaaagcac aatagtgtac caaccgtggc agctaataata ttcagcttcc ttatgcttct 120  
agatcactct gctatagctg ctaccgtaac cattatccca cactgctcac aagctactat 180  
agcttacttt cttcccccat acctatcacc aaccgcttct tcataattac gaaaacccaa 240  
tcctttaacc ttacacgata caacatgcaa tcaatacaac gtatttcacc tttatcaaac 300  
ttgttctctc aacaatacca agtcttacta cagtagctac ctcaaaccga tttgcctact 360  
cacaacatct ggttacatta aatccactaa ctatggctaa ctatgctgcg tacctactac 420  
aacgaccaca ggtacttaat acattggcaa ttgcttacc ataactctgc tgctt 475

<210> 13123  
<211> 445  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-036-Q1-K1-C7  
<400> 13123

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ggataacttt gttcaggaag caccaaattt ttttaagtaa tgtttgttca gtacctcaaa 120  
tcattccccg ccatgatcca agaaccttat tctctcttgg gggagaattc aaaggacaca 180  
ggagaccgga aatgttctct atatggactc tctggtgaat ccagacacag agtgtcatat 240  
acactatcat gctctaggaa aagctcttgc cctctcaag agacgcgaga tatgacactc 300  
tagagagagg gacacctctc tgaacctgga acagttccag gacaaggcaa agaaggaaag 360  
gctgcggatt tggcagtacg gagatgttga atcggacgag gacgagcagg cccgcctgc 420  
aaggaagcct ggaggtcgtc ggtag 445

<210> 13124  
<211> 350  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-E5  
<400> 13124

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 aatgtatggg gctcaatctg cctaagatca tgacaacatt gttgctgcaa tacctggcag 120  
 ctacttggtt gtatcaaacg tgattggaga aaaggcatta ccaaagggct gcactgctgc 180  
 cttaggaatt catgacaatt tttttagatt tgagctactg ctatagtact tatagctgca 240  
 ccttgtaactc tgctgctgct cctggcaatg acattgatgc tgttgtgatt tttcctggcc 300  
 ctgctgatat tgctgangct gntgtggatg ctgctgcttg tcatgaccct 350

<210> 13125  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F6

<400> 13125  
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 acgaaacaca tcgtcttcgg atcttgcatg attagttccg tcgtgcgggg atgctgctgc 120  
 taccagcagc atccagaaga agacgtcgtg gccggaggtg gtccgcatgt gcataatgga 180  
 tgcgacggat actattctca aggacatgcg caacgcgtac atccatctgc taccctgctg 240  
 gataccccgt gacgctgaac ctccggcctt accgcgttcg tatcttcgta gacacagatg 300  
 acctgactcc tacagttgaa cgatacatac catgggcaat ctacataccc tactttccat 360  
 tgcattgtttc cacttaatac taaacaacgc cttaacttct tacttgtgct tacttggaag 420  
 gcgtt 425

<210> 13126  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-036-Q1-K1-F9

<400> 13126  
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 tcattccttg ttggaaggaa cgatggagca gaccttcac atgatcaagc ccgactgcgt 120  
 gcacgggggc ctgatcggcg acatcatcag tcgcttcacag aagaaagggt tctacctcaa 180

gggatgaag ttcatgaacg tggacaggtc cttcgcgag cagcactacg ctgacctttt 240  
cgacaagcct ttcttctctg ggttggtgga gtacatcatt tacggccccg tcgttgcgat 300  
ggtgtgggag gggaaggacg tcgtgttgac tggccgcatg atcattgggg ccaccaggcc 360  
ttgggaggca gaccccggtg ccattcgtgg ggactacgcc gtggaa 406

<210> 13127  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-G12

<400> 13127

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tttccccagc ctcgggggaa agccgtagt gaccgttacc atgtgctcgt cgggacaggc 120  
tccactcagc tctttcaggc cgtgctgtac gcgctctcac ctgcaagtga cggcacaccc 180  
atgaacgtcg tctcaccggc accgtactac tcgtcttacc catctgtgac caactatcta 240  
aactctgcgc tctaccgttg ggctgggtgat gccaatatcat ttgatggcga cacatgtatt 300  
gagctcgtct gctccccaaa caaccctgat ggcggcctcc ggaagcctgt catcaaatcc 360  
aagtctagca cgctgtata tgacttcgcc tactactggc cgcagtacac acccatcacc 420  
gaggcagctg cccatgacat catgct 446

<210> 13128  
<211> 467  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-H4

<400> 13128

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cgcgtgctc cgcgcggcgc acccgagtg gggcccgga gccatccggt cggcgcttat 120  
gacgacggcg tacaacgagt accccggcgg cggcaacggc atcctggacg tggccacggg 180  
gcggccggcc acgcccgtgg acgtgggcgc cggccacgtc gaccccgga aggccgtcga 240

cccggggctg gtgtacgaca tcgcgggcggc ggactacgtg gacttctctt gcgccaacaa 300  
ctacgaggcg gcgcagatcg cggcgctcac caggcagcac gcgtccgaag ggtgcagcgc 360  
caaccgcacc tacgcgggtga ccgcgctcaa ctaccctgcc ttctccgtgg cgttcccggc 420  
cgncggcggc acggcgaagc acaccgcac ggtaaccaac gtcgggc 467

<210> 13129  
<211> 409  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-036-Q1-K1-H6

<400> 13129

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atgctgaaaa tgagggatac caagagaaca gttcgtacgt gctcatcttg acaagtgtat 120  
tacaccagta cacatacagt ctcagctttg agagcgttgc gacacacaca tcacagctag 180  
cacggcggtg ccaactgcc aagtcattgc ctagcactgc gaactcttgc taatactcgc 240  
tatctacctt tgagttcttc ttcaaactg cgcattttct cctggatcgg cgccaaaaag 300  
gacttgagat ccttgcagat ccgtgttcta tcatcagacg cgaggccctt gtcacgcgcg 360  
aaccttactt gtacctncaa gtcacgacg tcgccgaatg aaaactcgg 409

<210> 13130  
<211> 481  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-A3

<400> 13130

taccggtctc ggattcccgg gtacgacacc acgcgtgcgg acgcgtcctc cggacgcgtg 60  
ggcgggtctc ttggtctctg gtgctcttct acaccaggt cctctctaac atcttctgca 120  
accgcggcaa gctctacgag ttctccagca cgcagagcat gccaaaaaca cttgaaaagt 180  
acaaaaatg cagttttgca gggcctgaaa cagcactcca gaatagagag aatgagcaac 240  
tgaaaagtag ccgcaatgag tacctcaaac tgaaggcacg tggtgataat ttacagcgga 300  
ctcaaaggaa cttgcttggt gaagatcttg agtcattagg cataaaagag ctggagcacc 360

tggagaagca gctcgattcg tccttgaagc acataagatc tacaaggaca caacacatgg 420  
 ttgatcaact gacagaactt cagaaaaaag aacaaatgtt ttgtgaagca aataagtgtc 480  
 t 481

<210> 13131  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-A4  
 <400> 13131

tgctcaagta ctaccagggc gtgattgaca acatgtacaa aagtgctaag tgaactcagg 60  
 gtacagtaca catcccgatg aagattccca acgttgaatc ttgtttgagc agccagaagt 120  
 tctgctttgt atatgctcgt agtttgtatg cgagaattct ttctgtatc agttttttca 180  
 gaaacgattt gccttgggca tatatatagc aaaaccggca atgtggccag cagccaagtg 240  
 gagacaccgt ttcaaattga ttgaactatg gcgaataactg attgacagaa gggttagggc 300  
 atgcttggtg cttttaccag gtactattct acctggccga gcaaattgat taaggccaac 360  
 tgtttggatc caatttaggc cttctttgaa atgtgggatt tttttcccat ttctatgta 420  
 tttctgtga aaataaactg attc 444

<210> 13132  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-037-Q1-K1-B3  
 <400> 13132

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 tagtcgaacc ttgcttattg gcctcccggg gctcgctgtn accatcctct gcatectagt 120  
 ccggtccgnc ttcgcggagt tctggctcga cgagttcacc acggacggcg acgtncgcag 180  
 agactacgac cgttctggcc ggcaggtggc gtcgcttgct ctcgaccagc gttctggcgc 240  
 tggcttcaac tccacgcgca agtacctctt cggcgagtgc agcgtggaga tgaagctcgt 300

cggcggcaac tccgctggga ct

322

<210> 13133  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-B5

<400> 13133

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gcgaccaaga tattttccct cttatgctc cttgctcttt ctgcatgtgt tgctaacgcg 120  
acaattttcc ctcaatgctc acaagctcct atagcttccc ttcttcccc ataccttcca 180  
tcaatgatag cttcagtatg tga aaaccca gctcttcagc cctataggct ccaacaagca 240  
atcgcagcaa gcaacatacc tttatcacc ttgttggttc aacaatcgcc agccctatct 300  
ttggtgcagt cattggtaca aaccatcagg gcacagcagc tgcagcaact cgtgctacct 360  
gtgatcaacc aagtagctct ggcaaaccct tctccctact ctgagcaaca acaatttctt 420  
ccattcaacc aactgtctac actg 444

<210> 13134  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-D10

<400> 13134

ggagattctt cactgccgat ggtagcttgg gttccacgct gtggcttgtg ctgaggcgat 60  
tgatcccggt aatagtattg gttgcagttt gtgtgggtta cttcatgcac agcagtgttg 120  
aagagataga ctgcatcaac tgtagttga gcagggtatc tgtgctcacc ttctgtcctt 180  
tttcagggtga gtgtttatcg ttgtatagat ctgatgagta ctacacgtat ttgttggttg 240  
tgtgggttga ggacttgagg gcgaagtatt cacgtgtact gtactgttaa acttgacttg 300  
tctaatagtt gcttccactg tctcaaaaaa aaaaaaaaaa actaaatata aaaaaataac 360  
cgaaagttta c 371

<210> 13135



<211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-037-Q1-K1-D11  
  
 <400> 13135  
  
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 acctctcacc agcgggtgtct tcgggtatgtg aaaacccaat tcttcaaccc tataggatcc 120  
 aacaggcaat cgcagctggc atcttacctt tatcaccctt gttcctccaa caatcatcag 180  
 ccctattaca gcagttacct ttgggtgcatt tattggcaca aaacatcagg gcacaacaac 240  
 tacaacaact tgtgctagca aaccttgctg cctactctca gcagcagcag tttcttccat 300  
 tcaaccaact agctgcattg aactctgctg cttatttgca acaacaacta ccattcagcc 360  
 agctagctgc tgcctacccc caacaatttc ttccattcaa ccaactggca tcattgaact 420  
 ctctctgctt 429

<210> 13136  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-037-Q1-K1-E10  
  
 <400> 13136  
  
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 tgaaattttc attaagctct tttatgacaa ggatgacaag aaggaaaatg cttagcttaa 120  
 tgagcgtgcc aagaactctg tcatcattaa caaattcctt aaacctactg aaggatatat 180  
 gtactacggc agacttcacg gtctaagtgt ccgagatcat cgtcatacat ttagatgcct 240  
 atactaaaag gcatacatc atgtccatc tactgctgct ccatacattg aatatcaacc 300  
 tc 302

<210> 13137  
 <211> 470  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-037-Q1-K1-E3

<400> 13137

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ccgaggcagg gcaaaaaggc cgggtgccnc ctccccggcg ttggcgggct cgtgccacgg 120

tgcggtagcc ccgtcgacgc cggcggacag cgtgcactat gggttgcttc ttcttcgggc 180

cagctaggaa atactgaagg gctgaacact atcagcaacg atagctctcc agacgccagt 240

tcaaaggact tgcgtgctaa gttggtattg ctgggagact cagggtgttg gaaaagttgc 300

attgttcttc gttttgttcg tggtcagttt gatcctactt ccaaggtaac tgttggcgca 360

tcttttttat cacaaacatt ggcattggag gattcaacaa tagtgaagtt tgaaatttgg 420

gatactgctg ggcaagagag gtatgctgcc ttggcgccac ttactacaa 470

<210> 13138

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-E7

<400> 13138

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atgtccgaac caccgggcaa gggcccgtag cctttcgaac ctccccggtc ccggattgcc 120

ttcaacccga aaggccaagc cttaagaacc aacagttcca agccgccgat ccgaagaact 180

tgcgaatccg tactctgttc cggccttgaa ggaaggggat ggtcgccgat tttatgccaa 240

tttactcgcg cccacgccc cgagtctttg atcgatgtgt ttgtacagtc gaaagagcat 300

tgctttacat aggaccattc atatatatat attgatcttc cctcccttcc tcttcccgcg 360

ggccgtcaga ggcaatttcg cctcgtatc gaccccgatt cgttcgcccg cgaccgggat 420

tcccttcggc aagcgcggat ctg 443

<210> 13139

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-F5

<400> 13139

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 aggtcgcagc catggcgaag aactaccga ccgtagcgc cgagtacagc gaggtgtgg 120  
 acaaggccag gcgcaagctc cgagccctca tcgccgagaa gagctgcgcc ccgctcatgc 180  
 tccgcctcgc gtggcactcc gcggggacgt tcgacgtgtc gtcgaggacc ggcggtccat 240  
 tcggcacgat gaagcatcag tcggaattgg ctcacggcgc taacgcgggg ctggacatcg 300  
 cggtgcggct gctcgagccc atcaaggagg agttcccaat cctctcttac gccgatttct 360  
 accagctcgc gggagttgtg gccgtggagg tcaccggtgg gcctgagatt cccttcacc 420  
 ccggtaggga agacaagcc 439

<210> 13140  
 <211> 122  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-F7  
 <400> 13140

aatcaaagga tgcgcaaata gcttcagac tccagtgagc aggactgcag tatacactga 60  
 cattgaggca gtaatattaa tggtgataga gagaattaaa tacatctctt tgtttttgaa 120  
 ct 122

<210> 13141  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-037-Q1-K1-G10  
 <400> 13141

cggtttcgga ttcccgggtg ggacccacgc gtccgccac gcgtccggtc gaaactgctg 60  
 catatcggca ccctggagtt gagcagtacg ctggcaggtc atttgctgat gcattagatg 120  
 ctgttcact agccttggtt gaaaacagtg gtttgtcacc aattgatacc ttgaccgcgg 180  
 taaaagctca gcaagttaag gagagcaacc cccactgcgg catagactgc aacgatgtag 240  
 gcaccaacga catgaagag cagaacgtct ttgagaccct gattggcaag cagcagcaga 300  
 tcctgctagc aactcaggtg gtgaagatga tcctgaagat cgacgacgtc atctcaccgt 360

ccgagtactg atgaagcctg aaggaaggag gaaaaaaaa gagaggaaca ggtggctatg 420  
 ctggatgaga gtttagtagg cagcattgct gatgtgttga t 461

<210> 13142  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G11

<400> 13142

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 gttctcgtgg gaaaaaaaaa aaaaaaaaaa aaatggaaaa taaaaaaatt aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggccggcctt ttttaagggtt 180  
 ccaacttttc ttccccttcc ttccaacttc ttaccttttt tttagtgtcc cctaatttca 240  
 tttcattgcc cttcttttta caacttcttg actggaaaaa ccttggcttt acccaactta 300  
 ttccctttgc atcaactccc cttttcccca gttggcttat taccaaaaag ccccgcacca 360  
 ttgccttttc ccaacatttc ccagcctaa ttggcaattt gaacccccct tttaccgtcc 420  
 cttaacccc ggcggtttt 439

<210> 13143  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G5

<400> 13143

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 ttcttagcat gtaacatcat taaaaaaaaa caaaactcta tagttaatag ggtggtattg 180  
 tgccgaaacc cgcttggcaa gaagcttccg aaggaccaac agaactagcg cagaaagcag 240  
 tatctgcgca agcatataat cgaacaaatc taggactgga tggtcacaaa cctcgagaga 300  
 tacatcggca tcaaacgcag ataatgcaac cacaacacat cttatcagga agcaggtaac 360  
 acaaattgct gtcacagtcc caacctcata aagcttcttt tgccgc 406

<210> 13144  
<211> 470  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G8

<400> 13144

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acctttacct ccaaggcctc caatgcagtg cggatatgct agctcctgga gtcattgagat 120  
ttccaccacc tccgccacca ccagattcaa ggccatcgct tatggcgggt ggagtttaaca 180  
ggccccctcc acctcctcca ggatttccac cgtctcaa at gccaatgcca ccgtatgggtg 240  
tgctccctgg tccgccgccc atgcttaggc ctccattttt gccaggacct cctatgcaac 300  
tagatgagtt tgctgccttt gcccgaaggc ctcatgtacc tcagcagcca tcatacgtga 360  
agtcggctgc cccaacagtt gtgaagagac cattagcaca gcacactcct gagctgacgg 420  
ctatgggttc tgcattcagtc cgtgtcaaga gagaatctgc tctccccaag 470

<210> 13145  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-G9

<400> 13145

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gcctcgcttg ggccacggac gaccactccc tccacaacgc cttcagcacc tacggcgagg 180  
tcctcgagtc caagatcatc ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg 240  
tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc 300  
tggacggccg caacatcacc gtcaacgagg ccagtcctcg cggcggccgt ggaggcggcg 360  
gcggtgggta cgggtggtggc cgtggaggcg gcggctacgg cgggtggcagg cgccgtgatg 420  
gcggtgggt 429

<210> 13146  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-037-Q1-K1-H10

<400> 13146

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 ggtccatcct tattcaacag tttcacaatt ttattttata cacactacac aatgccttcg 180  
 atacaaaata ttacttttcc aagttgatac atcctattca tttcctgtcc aattgacctc 240  
 tccattctct 250

<210> 13147  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-A10

<400> 13147

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 caaatcctcg tcagctcgtc cgtccttggc tcnttccgtg ccctcgtcgg ctgggtccatg 180  
 cgtccatgcg tccgggaccc ctcttggtcg tgtccggggt gggggcccat cccgcatcaa 240  
 ctctcgtctc ccgagtctgc cccgctggta cccgtgactc agccccggac cctgcgntng 300  
 catcgggccc gtcgcccttt cccgtggccc cggagccctg aagaaggaga tgcnttngcc 360  
 gggagcctgt ngcggacatc nnccggcgt 389

<210> 13148  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A12

<400> 13148

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 cgcagcagca ggcgcctgcc gcgggagcgc gcgacggcag cgggtccccg gagcgggcga 180  
 cggcggagga ggagatggcg cgcgtgttcc gcaagttcga cgcgaacggc gacgggcgga 240  
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 aggtggcgcg catgatggcc gatgcggacg cggacggcga cggcttcac agcctgcccc 360  
 agttcggggc cctcaacgcc acggtggcg gcgacgggc cgctctagag gatccaagct 420  
 ta 422

<210> 13149  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-A3  
 <400> 13149

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 ctgaagggtg gccaatcaat tatacagaaa ttttgggcaa gactactgtg tgctggccct 180  
 gctcttcacg ctgatgcttc aatgagcagg gctgattgtg cagcaaaact taagcattgg 240  
 acggatgaat tcgcttgtag actgcagcac tactgggttag ggacaaaact actctgcgca 300  
 gatgttagga tctcatcaag attgctgggt aaacttgctg ggggaaaagc ctttcaagat 360  
 tagacaggcc acaatttgac acgcacaaca gcatatatct cca 403

<210> 13150  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-A5  
 <400> 13150

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ggctgggggtg aggcgatgtg cgttgccaga tacagttttg tcttggtgac tctacttata 180  
 tgattatcat ttgtaagcga tttgctcaag ttatttgtcg tttatgaata acttgctttc 240  
 ctc 243

<210> 13151  
 <211> 236  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A7

<400> 13151

agatgcgaac caagtccttt ttttaaaaaa aagtgacaat gaactacctg tgtattagga 60  
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 cttatacagc agagctgaag acaagaaatg accgtgaccg tgaagacata atgataacat 180  
 cctagtttac atttacacta ttctgcactc tatgccatgt atacagttcc agtaaa 236

<210> 13152  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-A8

<400> 13152

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 ggcaccacca atgatgcatt gatgttagca agcctacttg tttgtcaaag caagttggac 180  
 aaacggcatc aattgtcgta tttctaaata accagcgcag agagccacac gtatcatgtc 240  
 accatttgtg cttaagcaat attttctaata agattatcat ctgaatcttg gaac 294

<210> 13153  
 <211> 221  
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 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B1

<400> 13153



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gccgaattgc aaatagttca tgacatatgc tacataattg acatctaaca ttaaaagtgc 120  
ctaaaacaca aatagcctac ctttgaaatg gcaaccttag aaaagaactc ttattgacct 180  
gataggaaaa gtteccaata gttaacacta taggcaaaag g 221

<210> 13154  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-038-Q1-K1-B10  
<400> 13154

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cactaaccga acgcactagc ggcgcccgtc caacaatggc taccaagata ttatccctcc 120  
ttgcgattct tgccctttta gtgagcgcaa caaatgcgtt cattattcca caatgctcac 180  
ttgctcctag tgccattatt ccacagttac taccaccagt tacttcaatg ggcttcgaac 240  
accagttgt gcaagcctac aggctacaac aagcgcttgc ggcgagcgtc ttacaacaac 300  
caattgccca attacaacaa caatccttgg cacatctaac aatacatacc aatcgaacgc 360  
aacagcaaca acagttccta ccaacactga gccacctagc catggtgaac cctgccgcct 420  
acttgcaaca acaact 436

<210> 13155  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-038-Q1-K1-B2  
<400> 13155

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aagaacttgc ttttggagaa aaaaaccccg gaagccatta tggaaggagg tgcccgcgcc 120  
agccaaaaaa ggaccgtgct tgtcaccggg gccttcggct tcgtcggctc ctggctcgtc 180  
atgaaacttc tccaagccgg ctacaccgtc cgggcgaccg tgcgcgatcc cgcgaacgtt 240  
gggaagacca agcccttgat ggaccttccc ggagcaacgg aacgcctgtc catatggaaa 300

agccgacctg cggaagaagg cagcttccac gacgccatca ggggctgcac cggcgtcttc 360  
cacgtcgcca cgcccatgga ctctctgtcc aaagaccctg agaatgaggt aatcaagccg 420  
acggtggaag ggatgataag ca 442

<210> 13156  
<211> 52  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B4

<400> 13156

gaattcccgg gtcgaccac gcgtacgcc acgcgttcgc ccacgcgttc ga 52

<210> 13157  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B8

<400> 13157

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gcgggccggg gactatgggtg tcggcgagga agtgcgagtc gcagagcttc cgcttcaagg 120  
gaccttgctc gagggacgcc aactgcgcaa acgtctgcct gaccgaaggt ttcaccggcg 180  
gcgtgtgcaa gggcctacgc caccgtgct tctgcaccag ggactgctag tactgcctcg 240  
cctcgtgtcc tgcgtgtgca tatatagccg cagcggatca gtaaaacatg catgcatgcg 300  
ttaccaaata tttggcagta ccagcaagtt aatgaattaa aatattaaat aatatgtcat 360  
ggaaaa 366

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<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-B9

<400> 13158

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 tatgtccttt gctctttcta catgtgttgc taacgcgaca attttccctc aatgctcaca 180  
 agtcctata gcttcccttc ttcccccata ccttccatca attatagctt caatatgtga 240  
 aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca acataccttt 300  
 atcgcccttg ttgtttcaac aatcgccagc cctatctttg gtgcagtcac tggtaaaaac 360  
 catcatggca caacagctgc agcaactcgt gctacctctg atcaaccaag tagctctggc 420  
 aaacctttct ccttactctc agcaacaaca att 453

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 <211> 71  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-C12

<400> 13159  
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 ccactccttc c 71

<210> 13160  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-C5

<400> 13160  
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 aatttggggg agcaataatg tcaaaagcgt ctttttttta ttggaggcag tactttattg 120  
 acctccgtga acaaaaaatg atcccaccag aggactggta agaggattcc atcataagtc 180  
 actgactaac tgggggtgagg agcttttaca catgctacca tgtattgcaa tcgcttttcc 240  
 ccacaggagg ttcctaaact gggctcgcat tatataagaa gttagccaac tttcctatgc 300  
 agcagaagag ttcaacctta gcatgcgaac ttcccatgca tttatgctat gtataactcg 360  
 ttttaataccc aaaattaa 378

<210> 13161

<211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-C8  
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 taagcaaatt atagaggata agatcacccc tatcaacgtc gatatctcca aggttgcttc 180  
 caagtaccac ctctacaccc atgccgacgt cgaatcctag atctctaagc tgtgaaacgc 240  
 tttcgtagct cgcgatatac atgtcatcaa tcacctatag acgaaccttt tacaaatcgt 300  
 agacatccta tgatcttgat tatacctgtc atcttactct gttgttaact cctcaatgac 360  
 aatctat 367

<210> 13162  
 <211> 78  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-D12  
 <400> 13162  
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 acgcgtgggg caaattct 78

<210> 13163  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-038-Q1-K1-D4  
 <400> 13163  
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 caaatgcagg aaaggcattt ggggctgggg tagatgccat tggctattcc tatgccgtga 120  
 tgccatccgc caaggatctt gtgcctgaaa ctcacctca ctttatcggc acctactgga 180  
 gcatccacag caccaccttc tgtgcgtaga ttgttgagta cgcagatgcc tacctctttg 240

cacgccccat tttgaatgac tacagctctg ttggctactc attgctactc aagaaggaaa 300  
aggccatcat catacaacct gagcgcgtga taatggcgaa tggtcggca ttctgatgtg 360  
tgatgatgaa agagttcttg tctgaattgg ctaacagggtg taataagaac accactgact 420  
atgagaatta ccagaggatc tttgaatctg atggcca 457

<210> 13164

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-D6

<400> 13164

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aatactcaca agctcctata gctgcccttc ttaccccata ccttccatca atgaccgctt 180  
cactatgtga aaaccagca ctttcaaccc tacaggctcc aacaagcaat cgcaacaggc 240  
aacttacctt tatcaccctt gttctttcaa caatcgccag ccctatcttt ggtgcagtca 300  
ttggtacaaa ccatcacggc acaacagctg cagcaactcg tgctaccagt gatcagccaa 360  
gtagctctgg caaaccttc taactactct cagcagcaac aatttcttcc attcaaccaa 420  
ctgtctacac t 431

<210> 13165

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-E4

<400> 13165

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gcgttcgacc acgcgttctc ttacgaaagg gctgttgac agggaaaaaac cgagcaagaa 120  
acagggtcac ggggtctcaat cagtgatggt acagtcacta ttgttgctaa aactcaagaa 180  
attatggata aagctattga gaaggttgag ttcctcgtgg gacgtgaaat tgaagttggt 240  
cgtacatata aaggaattgt ttcttcgatt aaggagtatg gcgcttttgt ggagttcaat 300

ggtggacaac aaggettact tcatatttcg gagtagtcac atcaaccggt tacgaaagtc 360  
 ttggatgttg aaactcttgc gcaatatctg tctatgagat gcattggaca ggacatgcgt 420  
 ggtaacatta aaattttact taaagcaacc 450

<210> 13166  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-F12

<400> 13166

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 ctggtgggta tttgcagcaa caactattac catgtaacca ggtagggtact ggctaatttt 120  
 aagaacaacc acttggtgca tttaacccat tgggcggaat ggaaccgcgt gggtattt 178

<210> 13167  
 <211> 122  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-038-Q1-K1-G11

<400> 13167

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 ccagcttacc ttcccctgca tgccaagtca taactcttct ataggggcac ctaaattcaa 120  
 tt 122

<210> 13168  
 <211> 102  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-G5

<400> 13168

accggtctcg gaattcccg gtacgacgcc acgcccgtcc ggtctacagc ttacagtgcc 60  
 tatcacgcac caagtgggcc tacatggaga agggctctcg ca 102

<210> 13169  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-038-Q1-K1-H12

<400> 13169

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 tttagaagag tatcggtat gtgcaaggga tggcgatatg cattcaacca acttgctttg 120  
 acaaaccag cagcggttcta ccaacaaccc atcattgggtg gtgccctctt ttagattgct 180  
 tatgagttat agttcaataa taaagttggt gtgatgatgt ttgtggctta ccagagataa 240  
 gaaagtacag ctctagatgc ttatgtgcaa 270

<210> 13170  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-039-Q1-K1-A1

<400> 13170

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 ctgcgcgaac cctcacggtc tgatcaggaa gtacgggctc atgtgctgca ggcagtgctt 180  
 ccgcagcaac gccaaaggaca ttggtttcat caagtaccgt tgaagaggcc actgtgctgc 240  
 tgtggagaac ttctacatc aaagaaatgg gtccttcatt agaaggccta atttatgcgc 300  
 tntagctttt tgttcagaac ttgagactca tgtgttaaac tcgacttggt aaagttttga 360  
 tggctacttt gtgcttggtg gaccagcttt aatc 394

<210> 13171  
 <211> 331  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A11

<400> 13171

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agccaggctt ctttcctatt ccaaccactt atattaacca ttacttgatc tctgatgcta 180  
caactggaat agcgtatgga cttgcccaca tagaatatgc ctatacacct gccactatca 240  
cctgcaaatt taaccattca agatccacag atatacacia tgttggtcct catgaatatc 300  
agaatgggcc ttcaacgatc tgtcgacgac c 331

<210> 13172

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A2

<400> 13172

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acgagcaggc ctggctgtct agagggccca agcttaacta accctgcatt ccaagtcctt 120  
agttttccaa cgagggatct gaaatcaatt aagtggccgt aactttacaa acataggacc 180  
gggaaaaacc 190

<210> 13173

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A3

<400> 13173

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ctgagggagc tggcgaacct cgtgagcgtt gccggcgacc acggcaagga gtccaaggac 120  
agggaggagc aggcggagtt caagaagatg tacagcctca tcgacgagtc caagttgaa 179

<210> 13174

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A4



<400> 13174

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gtgctgctac cgcaaccatt ttcccacaat gtcacaagc tcctatagct tcctttcttc 180  
ccccatacct ctcaccagcg gtgtcttcag tatgtgaaaa cccaattctt caaccctaca 240  
ggatccaaca ggcaatcgca gcaagcatct tacctttatc acccttggtc cttcaacaac 300  
cgtcagccct attacagcag ttacctttgg tgcatttggt ggcacaaaac atcaaggcac 360  
aacaactaca acaacttggt ctaagaaacc ttgctgccta ctctcagcaa cagcagtttc 420  
ttacattcaa ccaactggct gcattgaact ctgctgctta 460

<210> 13175

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-A7

<400> 13175

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caccaataca caaaggtgac atggccacgc gccgccactg tcaaccactg ctactgctac 120  
catccgtcgc cattgccgac aacctgctt acgcggcgct gttccgccat acctgtcatc 180  
agctgagcgt ttagaacctg aaaaccgact tgatcaactc 220

<210> 13176

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-B8

<400> 13176

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agttgttgcc gttctacctg cacgctatgc ctaacgctgg caccctctta caactgcaac 120  
aattgctgcc attcaaccaa cttgctttga caaactcaac agtgttctac caacaacca 180  
tcattgggtg tgccctcttt tagattgctt atgagttata gttcaataat gaagtttttt 240

ggatgatgtt tgtggcgctc cagaaataag aaagtacatt tctagattct tatgtgcttc 300  
tagtctccaa atgtggtcga tagttatttt gctctaagat cgggagtaat gaagtaaaaa 360  
aaaagatata acagaagaca aacactgaag 390

<210> 13177

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C1

<400> 13177

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ccttttttat ttgcaaaaaa tcgtgccag atgaatggaa aaattttctt gaaaggggtgc 120  
attgcgagag tgaagatcaa ctccacgaga ctgagcattc tgaagagcag cttcgccctt 180  
gggcatcata ccgatgacaa actttgacaa gatctgtaag agggatgatg tactacagac 240  
aagctatagt gcttcaggct tcccttgata tggccagaga tgatgacctt atggaggggtt 300  
ttagagcagc tgacctgtta tctgaatctg atg 333

<210> 13178

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-C4

<400> 13178

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gaactgaaca tcttttccgg agtttcaaga aatcatcttt tcttggcagt agtgagcata 180  
actgttgtga tgcaagtgat aattattgag ttcctcgga aatttacatc aacagtgaga 240  
ctcaactgga agctttggct tgtttctgta gttattgctt ttctaagttg gcccttggct 300  
tttgttgga aattcattcc agttccgaag actgaattga aagatctcat tgtaaggtgt 360  
tggcctaaac gtggcgagag tgcatacaaa cagactcatg atgacagaat ggaagtacca 420  
gtgtgaaact tgtcttgagc 440

<210> 13179  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D1

<400> 13179

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tgcaaggcac ttgctcacc ttgacgagaa gaacccccgt cgtatctttg aggggtgaggc 180  
gcttcttcgc cgcatagaac gctatgggt gcttgctgag ggtcagaaca agcttgatta 240  
tgttcttgcc ctacccgtg agaacttctt cgcaaggcgg cttcaaacac ttgtcttcaa 300  
ggctggcatg gccaaagtcca ttcacatgc tcgtgtcttg atcaagcagc gtcacatcaa 360  
ggttggcaag caaattggca aacgtccatc attcatggtg aggggtggaat c 411

<210> 13180  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D11

<400> 13180

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taggcttggt tggtcttctt gtgggtgttt atgatgtatc cagtgaagtca ctcaacaact 120  
ttggcgaaag ccagatggtt ttcttgcaat ttttgaaaaa tattccgcgc cctgaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcagacg atctaaaaga tccaaac 237

<210> 13181  
<211> 91  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D12

<400> 13181

agcaaatacg gttaagatgt tgccggttgt cattatatag caagaattcc atgacaaaga 60

ttgcttggca cttgattgct gctttggttg c

91

<210> 13182

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D2

<400> 13182

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cggcaccctc gatcacgcgg tgcggcgagg taaggtcagc atggtgaggg tcagtgtgct 120

taacgatgcg ctcaagtgca tgtacaaacc tgag 154

<210> 13183

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-D9

<400> 13183

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ttatgctgcc ttgcgcttct tgcacttttt gcgagcgcaa caaatgctgt cattattcca 120

caatgctcac ttgctccaag ttccattatt acacagttcc tcccaccagt tacttcaatg 180

ggcttcgaac acccagctgt gcaagcctat aggctacaac aagcaattgc ggcgagcgtc 240

ttacaacaac caatttacca gttgcaacaa caatccttgg cacatctaac aatacaaacc 300

atcgcaacgc aacagcaaca tcaattacta ccaacactga gccacctagc catggtgaac 360

cctgcctgtc acttgcaaca gcaattgctt gcatcaaacc cacttgctct ggcaaa 416

<210> 13184

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E1

<400> 13184

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gggttcgtga ggttctccgg ggtgcgggtt cgtgggtgag cggatcgaga tggcggcgtc 120  
 ggatgttgag taccgctgct tcgtcggcgg cctcgcttgg gccacggacg accactccct 180  
 tcacaacgcc ttcagcacct acggcgaggt cctcgagtcc aagatcatcc tcgatcggga 240  
 gacgcatagg tcccgcggct tcggcttcgt caccttctcc acggatgatg cgatgcggaa 300  
 cgccatcgag ggcataaacg gcaaggagct ggacggcgcc aacatacccg tcaacgaggc 360  
 c 361

<210> 13185  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-E4

<400> 13185

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 atggcagcca aaatattttg cgtccttatg ctcccttggtc tttctgcaag tgttgctacc 120  
 gcaaccattt tcccacaatg ctcaaacgt cctatagctt cccttcttcc ccatacctc 180  
 tcaccagcgg tgtcttcaat gtgtgaaaac ccaattgttc aaccctacaa gatccaacag 240  
 gcaatcgcaa caagcatctt accattatca cccttggttc tccaacaacc gtcagcccta 300  
 ttacagcagt tacctttggt ccatttggtg gcacaaaaca tcaaggcaca acaactacaa 360  
 caacttgtgc tagcaaacct tgctgcatac tctcagcaac atcaagttct tccattcaac 420  
 caactggctg cattgaactc tgctgcttat ttgc 454

<210> 13186  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F1

<400> 13186

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 aggcctacga cgaggatgag gacatgccgg tcggctcgca tagggtgcaa tgcgcacagc 120  
 attatgcagc agtttggtag cggtgataaa atatttgacg gcggcgtaaa aatttggtgcg 180

actactgtta ggtccaaccg tccaatttta cacgcgcgta ttaatgttat gatcatactt 240  
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<210> 13187  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F10

<400> 13187

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gaatcgatgt tgaataccaa atcagtttag atattgaaat gggcatcaaa tcaaattctt 120  
gtttggatgg acaagaatth ggtatgtaaa atcataggga attttccaat tccaatggat 180  
gggctagaca ggggtccggc gtgaactgca cgattggaaa aaggtcagcc gattccaccc 240  
aaaaggagtg cacggcctct gaattgtgcg cggccatggc tactaaaatg aacagtagtg 300  
tggaattgga ttgcaatgta ttgcaattca gaataaaaca tcagcatttg cttcagccaa 360  
taccatttcc tggattctga gtgccaatca tccaacggtg tgtaatatg ctctgt 417

<210> 13188  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 13188

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agaaatccat cngagaggct cgtcgacagg ggcaattaat ggtcgtcgtc gtctagcagc 120  
agtcacccg gcgtcttatt ctgcgacagc ccgttctggt cttcgtgctc tcgggtgtca 180  
gagccagcgc ccggacctcc tgcgtgcccc ggtgggcat accgcac 227

<210> 13189  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-F9

<400> 13189

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tcaagctggc agcgcccaac agtaggcaca acctcagagt gatctgcctg aataagtact 120  
cgtagactgt aataattaaa caaagcttgc tcatgggttaa actgcgtgtt gattagtctt 180  
tcaactacat agctctaaag tttgtgataa aaaaagacag acct 224

<210> 13190

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-039-Q1-K1-G1

<400> 13190

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catcatagcc atgggttggg gaaagagaag tggattactg caatgatgcg gaagcatgac 180  
tgcagtgtg ttctgtaccc agtgaatact ggggttcacaa aaatctccaa aatgagagat 240  
tcagcttggt cgctgcggct tgctgcggct gcaatccggc tgcagctgcg gcttctacag 300  
tatttttctc tctatggatn gcagctgcag cagtccaaac agctgcaaca gtgtcggctt 360  
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<210> 13191

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G10

<400> 13191

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catccatgcg actgtcatag catcttctat ggtgtacctt aaattcaatt cattggacgt 180  
ctttttccat cggtgcgact ggaaaaaccc tgtctttcac caaacttaat cgct 234

<210> 13192  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G4

<400> 13192

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ggcagccaaa atattttgct ttcttaggct ccttgggtctt ttttgcaatg ctggtaccgc 120  
aaccatttat ccacaatgct cacaaagctc tatagcttac tttattcccc cata 174

<210> 13193  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G6

<400> 13193

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caatacattc accaagcaat ctacaacatg gttcagtcca taatccagga ggagcaacaa 120  
caacaaccat gtgagttatg tggatctcaa caagctactc aaagtgcggt ggcaatcttg 180  
acagcagcac aatacctacc atcaatgtgc ggcttgtacc actcatacta ccaaaataat 240  
ccatgcagca gcaatgacat tagtgggtgtt tgcaattgaa gaattgtgtc tacctagccg 300  
ttatactcct ataacggtgt taagcaataa agtaccatac att 343

<210> 13194  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-039-Q1-K1-G9

<400> 13194

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gaactactac cattcagcca gctagctgct gtgagccctg ctgccttctt gacacagcaa 120  
caattgtagt cgctctacct gcacgctgcg cctaacgttg gcaccctctt acaactgcaa 180



caattgctgc cattcaacca acttgctttg acaaaccag cagcgttcta ccaacaaccc 240  
atcattgggtg gagecctatt ttagattgct tatgagttat agctcaataa taaagacttt 300  
ttgatgaaaa accaacaaca cataattggt ggtgccctct tatagattgc taat 354

<210> 13195  
<211> 468  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-A11  
<400> 13195

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gaaatcccta cgaagaagta ctgagtgtc gtcatacttg gtgctggaac tctacctttt 120  
ggaacactct tcatcgagct cttcttcatt ctttctagta tttggcttgg aaggttctat 180  
tacgtgtttg gcttctctct tgtcgtgctt cttttgctga ttgtggtgtg tgctgaggta 240  
tcacttggtc ttacctacat gcattctctgc gccgaggact ggaggtggtg gtggaaagct 300  
ttctttgctt ctggaacagt ggccttttat gtgttccttt actctatcaa ctacttggtg 360  
tttgatctca gaagcttgag tgggccagtt tctgctattc tctacattgg atactctttc 420  
gttgactccc ttgccattat gctagcgact ggtaccgttg gctttctg 468

<210> 13196  
<211> 334  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-A2  
<400> 13196

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ccaaaatcgc acgcgagccc gaggtatccc caaacgctac acgcgcccgc cggcgcactc 120  
ggggaccgtc gaatcgagca ggttgacgga tgagaggaag cctcgaagat gttccggaac 180  
cagtacgaca ccgacgtgac gacatggagc cccaggggc ggctgttcca ggtggagtac 240  
gccatggagg ccgtcaagca gggctcagcc tgcgtcgggc tccggtccag caccacgcc 300  
gtcctcgccg ccgtcaacaa gcccgacttc gaggc 334

<210> 13197  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-A3

<400> 13197

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gccggcgacg ctccgcaca tgtggagcca cagggtggacg gaactggctc cggcaccacc 180
gtcgacttca agttctgcgc ctctgtctcg tacaggggaa ctgcaatgac catgaaacgg 240
atgctgga aa cctnctttcc tgggatccat gttgtcttgg aaaattatcc tccgcggttc 300
cccaaacg cg ctctcagtaa agctgtaccc cttcttcagt tcggcgcgat ggcaacatta 360
atggccggtg atcagatctt cccaggttt ggaatggctc cgcctccttg gtactactca 420
ctccgcgcta atagatttgg gaccatggcg tcaatctg 458
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<210> 13198  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-A7

<400> 13198

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ccggcgactt cgtgctgtcc caccagcaga cgctgccagg cttcactccg ccgggctcct 120
acacgatcta catgaagatt gtcggggacg acaacgagga gctgagctgc atctcgttcg 180
ggttcagcat cggttcgtc gcgtccagct gaacacgtcc gagcccgggc acgagaggca 240
tccagctcat ggatgtaatt acgtgaagca cactctgtat cctatgactt tttgtgggtg 300
tctgtgttca actgagacgt ttttatccgg agttgaacat cacagtaaag caaagtcact 360
gataccatgt aatggaactc tgagcgcttg atggggcccg tgttttttag actcacaata 420
aagccggttt 430
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<210> 13199  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-B1  
  
 <400> 13199  
  
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 agcagctcga gcgcgacttc gaccgcctca aggcctcctt cgacgctctc cgagcggacc 180  
 acgacgccct tcttcaggac aacaaccgtc ttcgctcaca agttgtgtcg ttgaccgaga 240  
 aactgcaaga gaaggaggat gcgacggang gcggcgccac cgctgacacc gncgcngccg 300  
 cggtgagcgt c 311

<210> 13200  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-B10  
  
 <400> 13200  
  
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 ctacttgcaa gatctgtgtt cagttgactg ggggtgcttct cagcttcttt gatgtgagga 120  
 gattggcgca cgaaatcacg tagcagtagc tcttattccc cactcgcgtt ttaacctgag 180  
 ctgcggcagt tggcattctt cattcagtcg taatggatgg gatagctcgt aataagggcg 240  
 gtgcttcgcc tggtagagga aaggaagggg aaggaagggg aagtgatggg ggagtgcgag 300  
 gacggcaagg agtacaggtg ctgggaagag ctgctgccgg acgcgctggg gctcatc 357

<210> 13201  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-B11  
  
 <400> 13201

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gcaaccgtgg ggattactga ccatgccgag gagcatttgg gtgatgttgt ctacgtggag 120  
ctgccagaag ttggcgtcag tgtatcccag gggaagaact ttgggtgctgt cgagagcgtg 180  
aaggcgacca gcgatatcaa ttgccagtg tccggagagg tggttgaggt gaacgggaag 240  
ctaagcgagg aacct 255

<210> 13202  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B8

<400> 13202

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atctaactct actctacacc ctactctcct acccgccac gatcctggac ctcgagctct 180  
ccatcctcgt caaccttcat ctctcaaat ccatgatcac attcacagag ctgctgctta 240  
caaacaccat cgatcccgcc ttgcgcgct tcgtccgcca cctccagacc cttgtcctcg 300  
catcttcac tcacc 315

<210> 13203  
<211> 471  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-B9

<400> 13203

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tgctgctacc gcaaccattt tcccacaatg ctcaaaagct cctatagctt cttttcttcc 180  
cccatacctc tcaccagcgg tgtcttcagt atgtgaaaac ccaattcttc aaccctacag 240  
gatccaacag gcaatcgag caggcatctt acctttatca cccttggtcc tccaacaacc 300  
gtcagcccta ttacagcagt tacctttggt gcatttggtg gcacaaaaca tcaaggcaca 360

acaactacaa caacttgtgc taggaaacct tgctgcctac tctcagcaac agcagtttct 420  
tccattcaac caactggctg cattgaactc tgctgcttat ttgcaacaac a 471

<210> 13204  
<211> 475  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C10

<400> 13204

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gccacgacac gacggtgacg acgaccaacg ctggcgctcc tgtgtggaac gacaacgagg 180  
cgctgactgt ggtgcctcgc ggtcccatcc tgctggagga ctaccacctg atcgagaagg 240  
tggcgcaactt cgcgcgggag cgcctcctgg agcgcgtggt gcacgcgcgc ggtgccttcg 300  
ccaatggctt cttctagtgc acccagcagc tgacgtcgct gacgtgcgcc gacttcctgc 360  
gcgcgcccgg agtgcgagacg cccgtgatcg tgcgcttctc gacggtgatc cagagcgga 420  
ggtccacgga gacgatccgt gacctccgca ggattgtctt gaagttctac accct 475

<210> 13205  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-C11

<400> 13205

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ctgcccatga tatcatgctg ttcactgtct ccaaatgcac cggccatgcc ggcaccaggc 180  
tggggtgggc attggtgaag gatactaagg tggctcagaa gatgatcaag tttatagagc 240  
tcaacacaat cgggtgtatcc aaggactctc aacttcgtgc cgctaagatt atcggggcaa 300  
tatgtaatgg ctatgagccg gtaccatcct ctggtaaaac aagccaactc ttccatttcg 360  
ccaaggaaaa aatggcggct cgctgggcta gacttcgtgc agctgtggca gcctcagaca 420

tctttactct tccttatgag ctatctggct attgtagctt t 461

<210> 13206  
<211> 466  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-040-Q1-K1-C4  
  
<400> 13206

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ggcatcaaca gagcaacaat ggcgaccaag atagtttccc tccttatgct ccttgctctt 120  
tctgcatgtg ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc 180  
cttcttcccc cataccttcc atcaatgata gcttcagtat gtgaaaaccc agctcttcag 240  
ccctataggc tccaacaagc aatcgcagca agcaacatac ctttatcacc cttgttggtt 300  
caacaatcgc cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacagcag 360  
ctgcaacaac tcgtgctacc tgtgatcaaa ccaatagctc ttgccaacct ttcttcctaa 420  
ttttaacaac caccattttc ttccattcaa ccaactgtct aactg 466

<210> 13207  
<211> 450  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3059-040-Q1-K1-C9  
  
<400> 13207

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gccagcagca gcctgtacga gccagctctg atgcagcagc agcagcagct gttggcagct 180  
caggggtctca accccatggc catgatgatg gccagaaca tgccggccat ggggtggactc 240  
taccagtacc agctgcccag ctaccgcacc acctcctgtg gcgtctccgc tgccattccg 300  
ccctactact gattcatgat atttgggaaa tctgctctat ccatccctct ctatctatat 360  
ctgtaataat gcactaagac gacacacatt atcatgtgtg gtatgaccaa taatatatgc 420  
atgatcataa taaagttttg gttttaatgg 450

<210> 13208  
 <211> 465  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D11

<400> 13208

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 acatcacctg caacgagggc cagtcccgcg gcgggcgtgg aggcggcggc ggtgggtacg 180  
 gtgggtggccg tggaggcggc ggctacggcg gtggcggcg ccgatgatggc ggcggcggct 240  
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 gcgggtggcaa ccgtagggcg ggctacggca actccgacgg gaactggagg aactgagcgg 360  
 tggggcccgc gcggccaagt tatcctgttc gctgccgtga tgtttaccct agtccagagg 420  
 gtttatcttc gatcgtctcg tgtttgttgg tgccatctgt ggttt 465

<210> 13209  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D12

<400> 13209

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 tctgtctata atttatgttc attatcttgc tccggagacc gaagaatctg aggacttgta 180  
 tgtatctggg atcaagatgt gaatctcgca tgtaccagat gacagaactg ttaagactta 240  
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 atatggcatg atatagcagg gctcttgaga tgcattctct tgtgcgtgct tggtaactgt 360  
 agtcgtgcaa ctgttgacgg cgtttgttca gaacaagtgg ttgatgaatc tgaagatggg 420  
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<210> 13210  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-040-Q1-K1-D2  
  
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 tgcctcgact gacttggctg ccctttggta tcgggtcaat gttgagcagg cagagtggat 240  
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 gatggctggg tggctgccag gtccaaacga anagaagttt ccgaanacaa gccatgttgg 360  
 atttgggtcta gttcttgggt cagatggcaa gcgggtccga acgcgcagta ctgaggttgt 420  
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<210> 13211  
 <211> 472  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-D3  
  
 <400> 13211  
  
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 taccgcaacc attttccac aatgctcaca agctcctata gcttcctttc ttcccccata 180  
 cctctcacca gcggtgtctt cagtatgtga aaacccaatt cttcaaccct acaggatcca 240  
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 cctattacag cagttacctt tgggtgcatth gttggcacia aacatcaagg cacaacaact 360  
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<210> 13212



<211> 474  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D4

<400> 13212

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cttgcccttt ttgtgagtgc aacaaatgcy ttattattc cacaatgctc acttgctccg 180  
agtgccatta ttccacagtt cctccctcca gttacttcaa tgggcttcga acaccagct 240  
gtgcaagcct ataggctaca acaagcgctt gggcgagcg tcttagaaca accaattgcc 300  
caattacaac aacaatcctt ggcacatcta accatacaaa ccatcgcaac gcagcagcaa 360  
caagcactga gccacctagc cgtggtgaac cctatcgctt acttgcaaca acagctgctt 420  
gcatccaacc cacttgcttt ggcaaacgta gctgcatacc aacaacaaca acag 474

<210> 13213  
<211> 470  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-D9

<400> 13213

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gttctgttat ggcattgctt tcacatttga cgaactgccc actttgccgg agaagaattg 180  
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taccaccaca tgtactgctt ctgaaaccaa tttgttcttg gaacttggaa gtgctggctg 300  
ctatcaacca acgacatgaa ctgcaatact gggacgaagc agcttcaatg agtttgcttt 360  
ttgaacagaa cagtgagtga tgcaagttgc aagctcataa ttggcagttg agatactctc 420  
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<210> 13214  
<211> 438  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-E1

<400> 13214

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gagggggccgc aaagctaggc ctaacttgaa ggtgggcatt tgtggagaac acggtggaga 180  
gccttcgtct gtggccttct tcgcgaaggc tgggctggat tacgtttctt gctccccctt 240  
caggggttcg attgctaggc tagctgcagc tcaagtgcct gtctgaggct gcctnctcgg 300  
tgggcaaccg aatggcctgc tgctgggtgg atgtggtgat caacagtatt attacagagc 360  
catgctatgt gaacattact agtagcaatg ctcataaaag ctacaatccc atcttccttt 420  
tttttccagt catgtaaa 438

<210> 13215

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E11

<400> 13215

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tatatctgat ctactgaac gactgggatt tgaggatcgt gacccccctg tggttcctct 120  
ggaatgctca ctgaagcac catcatttga tgaggttgat gttcaagccc tagcgcatgc 180  
tgttgagttg acaagacaag gtgctgtgga tagcttgaag tttgcaaaag gacatttata 240  
ccaagctttt cagaacgaat tgtgccggat gaagctggac ctgacacttc tggataaact 300  
tgtacatgag tattgtgtat acaggggaat agttgaaggc agttcacatg ttctttctgg 360  
aactgctgac ttgaaatgta atcaaaaataa tgatgttaat aatgaaacac agctttattg 420  
tgaaatgacc aacaatcaga atggacattg tagcaccag 459

<210> 13216

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-E2

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tggcgttatc caactcattc ggcttcgggtg ggcacaactc atcaattctc tttgccccct 180  
ttaaggaact gccatcttcc tcatcgtcca aatagattca tataatctgga tctccacata 240  
gaagacaagt ggactctgca acttctctcg tgccatagat attacaggga ggtccaaact 300  
gagcgtatct gagcgaacaa aacatcagcc ccctacatg tttcatctat atcacgaagt 360  
tgcagatatg tggtactat caaaaggatt taccgtacct gggccagtgt tttcgccctc 420  
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<210> 13217  
<211> 388  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-040-Q1-K1-E3

<400> 13217

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gcatgccgaa acggaagccg atggacgaga cacatgaaac gctgaggacc ttgnccttc 180  
cccagctcac acgtcaaaga gaaatgggcc aagaacctct acatcgcttc gatttgcttc 240  
gggcggaccg tgtgctgac gcgcgcgcct gggaaatgga agtccaaacc agggccaacc 300  
attccgtacc gtggccccctt ggattaagaa aatccaaaat gggccttaag tccaaaccaa 360  
gtctaataatg aggatcagtg tatctctg 388

<210> 13218  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E5

<400> 13218

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tactgttagca acattggagg gtacaagaat gaagatttgt tgaagtctta gctgcacagc 120  
agagcccaga taatccaaac tggtttcagg gtactgcaga tgctgtaagg cagtacttgt 180  
ggttgtttga agagcataat gtgatgaaat ttctaattct gcttgccaac aactgggtccc 240  
ggatggcctt tgaaagggtca atcaaggcca cagagaaaca aatgctgata ttaccgttgc 300  
tgtctaccg atggatgaga aacgtgcc 328

<210> 13219

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-E9

<400> 13219

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ggtaatgttg catccgttgg gtcgttaatg ttgggtgagt cactcatgac tataatggat 120  
acaaatgact actctgcagt tccccagcag ttgaaggaac agttgaatga aaggtaccct 180  
ggtgcaaggc gtgctgtact gaagactggt ggtgattttc ccttctgtc tcgtctgat 240  
gaggttaatc tgtaccttca gctacatctg agacgagttg gtgtagagcc aaggtcagac 300  
ctggtccaag gctttaccgg aaatggcagc gctgggagtt caaaggatca aaaagatgga 360  
ggggacagct ttgataatag tgggtggagac aatggccacc atgggttcagg tggcagtgat 420  
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<210> 13220

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F1

<400> 13220

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gctttgttga gtattgtatt tttggctggg agaatctccc tagaactctc ctcatgtact 180  
tcacaaacgt gatgctacct ctagaggggt atttccattc ggttgcatgc aactcggact 240  
tccgcaatth cacagtgaac aacgacttgc ggtatatgat ttgggacaat ccacctcaga 300  
tggagcccca tttcctaaat gttacacatt atgatgagct agtaaggaat gggggtcctt 360  
ttggccggaa ggttaaggag aatgaacctt gttggacaag attgatgatc aagtg 415

<210> 13221

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F10

<400> 13221

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gctattccca gcgaacccaa agtggccacc gtcagcagca tgttgtgctg tgtggaagag 120  
ggcagatgth ccatgcctat gcaaatatgt taacaaggaa gtagagaagg tatgggtgcat 180  
ggagaaggth gtgtacgtcg ccaactatgg taaaagcccc tttcaacctg cctacaagtc 240  
cggaagthtat acagttcctc taagtatgaa aaaggattgg ttggaacatg tggaactctt 300  
tcctaaaact ttaatttgaa atttgtacca tgtaaaagac tattgaaatt aatatgtatg 360  
gagtaatatg cttccttctt tt 382

<210> 13222

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F11

<400> 13222

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agttgctgca acagattgta ccagctctga ctcagctagc tgtggcaaac cctgctgcct 180  
acttgcaaca gctgcttcca ttcaaccaac tgactgtgtc gaactctgct gcgtacctac 240  
aacagcgaca acagttactt aatccactag cgggtggctaa cccattggtc gctgccttcc 300

tacagcagca acaattgctg ccatacaacc agttctcttt gatgaaccct gccttggtgt 360  
ggcagcaacc catcggttga ggtgccatct tttagattac atatgagatg tactcgataa 420  
tggtgccttc atagcgcat gtgtttccta gaaataatca ata 463

<210> 13223  
<211> 464  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-F12  
<400> 13223

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tcgagaccac caagtactac tgcactggta ttgatgcccc gggacaccgt gacttcatca 120  
agaatatgat cactggcact tccaagctg actgtgctgt tcttatcatt gactcaacca 180  
ctggtgggtt tgaggctggg atctccaagg atggccagac ccgtgagcat gctctccttg 240  
ctttcacact tgggtgtgaag cagatgattt gctgctgcaa caagatggat gctactacac 300  
ccaagtattc aaaggcccgt tatgatgaga ttgtgaagga agtctcttcc tacctgaaga 360  
aggttgata caaccctgat aagatccact tcgttccaat ctctgggtttt gaaagtgaca 420  
acatgattga aagggtccacc aaccttgact ggtacaaggg ccca 464

<210> 13224  
<211> 466  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-040-Q1-K1-F2  
<400> 13224

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agcatagaaa gtggaatcca gtagcaacaa tagagcaaca atggcgacca agatattttc 120  
cctccttatg ctcttgctc tttctgcatg tggtgctaac gcgacaattt tccctcaatg 180  
ctcacaagct cctatagctt cccttcttcc ccatacctt ccatcaatga tagcttcagt 240  
atgtgaaaac ccagctcttc aaccctatag gtcceaacaa gcaatcgag caagcaacat 300  
acctttatca cccttgtttc aacaatcgcc agccctatct ttggtgcagt cattggtaca 360

aaccatcagg gcacagcagc tgcagcaact cgtgctacct gtgatcaacc aagtagctct 420  
ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattc 466

<210> 13225  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-F9

<400> 13225

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gttgagaagg ttcttgattc tacttaggat atgattggag gtcttgagca gcaaattaaa 120  
gagatcaaag aggtcattga gcttccaatc aaacatccgg aactatttga gagccttgga 180  
attgcacaac caaagggtgt cctcctttat ggacctccag gcacaggaaa gacattgctg 240  
gcacgtgctg ttgctcatca cactgactgc accttcatca ggggtgtctg ttctgagttg 300  
gttcagaagt atattggtga aggtcccggt atgggttcggg aactctttgt tatggccagg 360  
gaacatgcac catccattat atttatggat gaaattgact ctatcggatc tgctagaatg 420  
gagtctggaa ctggcaacgg tgatagtga gtgc 454

<210> 13226  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-G10

<400> 13226

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ctgtcccaac tgagcggtaa ggacgtcacc gagctcattg ccgcgggcag ggagaagttt 120  
gcttcagtcc catgtggtgg cggcgggtgtc gctgttgctg cagctgcacc tgctgctggc 180  
ggagctgctc ctgcagctga ggcaaagaaa gaagagaagg tggaagagaa ggaagaaagc 240  
gatgatgata tgggcttcag cctcttcgac taggctgcac agtcatcaca gtattgtttt 300  
gggcagtga accagaggaa aaccagagtc atgttttagat ttttaagctt ttttatgttg 360  
gaaagtactg gaaagactgc tacttgtctt tatatttggt aattcagccg tagattgcta 420

tgctggttgg gattt

435

<210> 13227

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-040-Q1-K1-G11

<400> 13227

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cgcattctggg gcgggagtg cagtccttga tggaggccgt gttcccgag ggcgcgatc 180

ggggccaggg cgcgcgcgcg gcgctcgccg tcgaggaggg ggagcagggc atcttccgca 240

acaccgtggc cgcgctctc accatgcagg acgtccgcgc ggggagctcc accagaggaa 300

gccactcgct gccgcccgtc aacctgccgg actccgactg gctacggctc ttcgaccgc 360

cgtttccgat cccgaccga tgacattgt tgctcgccgc tcctagtagg cttgcgccag 420

cctnctcgat ctcccttct tttcggt 448

<210> 13228

<211> 441

<212> DNA

<213> Zea mays

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<400> 13228

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cggcggagga ggcattctgc gctggatatc gacacctaga ggagaccacc aaagcagcag 120

cgatatgagc tccttgagg ccgagatgaa gtcggcctcg tccttcaacg gaggcaggat 180

gccatgaccg acccatcggg cgagcttata aacaagacat aagctcgcg acagtaagca 240

agagacttga tcaagcagat gcagtgagaa gagtaaggtc atcgttatat agcgtagtag 300

caatcaatgc aagttatcaa ctgagtcgca tgagtgagtt catgcatgga taaagctggc 360

tagcttagct agctttcatc atccgaaagg accctgggtg agagatcgag aggcgtcttt 420



ctctgactaa aggagtaagc t

441

<210> 13229

<211> 428

<212> DNA

<213> Zea mays

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<400> 13229

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tgactcactc aagcctcgca tatttgtgct cctgagacgc tgctgtttg atggagatga 120

cgaggtgctc gatagagcga ccctttacct caaattgtta ggtggggaag ctacagtggg 180

tgagacagag aaggatgtga atgaatttct cttcggctca cttgatgttc cattagtaaa 240

cttgagagacg agtctgcgga attatgaacc ttcggatgta ctttttgata tttcatctgt 300

ttcgaaggaa acaaaatccc aaccccttgc ggagaaaaag tctacaggca agaaatcagc 360

aggtccagca tctgctgtca gtggctctgt ttctacagtt gatgcttcgt atgagaagct 420

tctttcgt 428

<210> 13230

<211> 458

<212> DNA

<213> Zea mays

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<400> 13230

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tgaggcatca gtgcagcccg acggcgacgc cctactgtc gcctgagtgc cagtcgttgc 120

ggcagcagtg ttgccagcag ctccaggcagg tggagccgca gcaccggtac caggcgatct 180

tccgcttggc cctccagtc atcctgcagc agcagccgca aagcggccag gtcgcggggc 240

tgttggcggc gcagatagcg cagcaactga cggcgatgtg cggcctgcag cagccgactc 300

catgccccta cgctgctgcc ggcggtgtcc cccactgaag aaactatgtg ctgtagtata 360

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<210> 13231  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-H11

<400> 13231

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cccttcagaa atgagaatgg catcctccgc aagtggatct ctcgttttga tgtctggcca  180
tacctggaga catacactga ggatgtttcc agtgaaataa tgaaagaaat gcacgccaaag  240
cctgacctta tcattggcaa ctacagcgat ggcaacctag tcgccactct gctcgcgcac  300
aagttgggag tcaactcagt taccatcgct catgccttgg agaaaaccaa ataccccaac  360
tcggacatat acttggacaa attcgacagc cagtaccact tctcttgcca gttcacagct  420
gaccttattg ccatgaacca ca                                     442
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<210> 13232  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-040-Q1-K1-H12

<400> 13232

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tgggtggcggc tatggtggtg gtagcgggtg ctatggcggc ggcggcagtg gtgactatgg  180
tggcgggcagc ggtggatatg gtggcaacta cggcgacagg gctggtggtg gctatggtgg  240
tgggtggtgat tatggagttg cagggtgggc tgaaggcagt ttgctgctg gaggtagcga  300
cagctttggc agcagtaact ttgctgacag tggttttggt gaaaaccctg ctggtagctt  360
tggcgcaatg ggtggttcca gtggcgctga tgggttctct gccggcacac ctggtgacgg  420
ttacaagaat gatgaaatca tggatgatct cttta                                     455
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<210> 13233

<211> 339  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H3  
  
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 cagttgctgc ctttctacca gcagtttgcg gctaaccccg caaccctctt acaactacaa 180  
 caattgttgc cttttgtcca acttgctttg acagaccag cggccttcta ccaacaacac 240  
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<210> 13234  
 <211> 183  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3059-040-Q1-K1-H8  
  
 <400> 13234  
  
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 atc 183

<210> 13235  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-A1  
  
 <400> 13235  
  
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 aaattaatga aattaaacag attgactctc tcgttaattc accccacata cccacaaaaa 120  
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209

<210> 13236

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-041-Q1-K1-A11

<400> 13236

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cgttcctctt ctggcagtcg atggacaggg tccacgtctg gatcgccctt caccaggacg 180

agaagaaaga aaggatggaa agggagctgg agataaagag aatgcaggca gagttactgg 240

ccaagctaa agagaacgaa tcatgattgt catttgtcca atggtttcag gcagttcctt 300

tatcgtatct cctctgctgt attttccatg caatatcttg actgatgtat gctcatgctc 360

aacacctnca ataaagcgag acatgctat 389

<210> 13237

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-C3

<400> 13237

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gagaaaaatc ccatccccag aaaacagcga gaaaaaataa atgaattacg caaggagctt 120

ggtgaacact catcagaagc cattaaagac ttcctttcag atgcctcgtt agtgcgattt 180

cttcgagcaa ggaactggaa tgtgcagaaa gctagtaaaa tgatgaaagc agctgtgaag 240

tggcggcttg cattcaaacc tgaaaacatc tgttgggatg atattgcaga ggaagcagag 300

actggaaaga tatatagggc ggattataag gacaaacatg gcagaactgt tcttgtattg 360

aggcctggct tagagaacac tacctcagca ataggacaaa tcaaatatct agtctactct 420

ctggagaaag c 431

<210> 13238  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-C7  
  
 <400> 13238  
  
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 gtcttcgagg tcgggtccgt ctccgccaaag ttccccgcgc gggacttcaa cgccagcctc 360  
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 <211> 128  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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<210> 13240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-D10  
  
 <400> 13240  
  
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 agtatgtgaa aaccaattc ttcaacccta caggatccaa caggcaatcg cagcaggcat 240  
 cttaccttta tcaccttgt tcttgcaaca accgtcatcc ctattacagc aattaccttt 300  
 ggtgcatatg ctggcacaaa acaataaggc acaacaacta caacaacttg tgctagcaaa 360  
 ccttgtgtgc tactctcagc atcagcaagt ttcttcattc aaccaactgg ctgcattgaa 420  
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<210> 13241

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-D7

<400> 13241

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 aatactcaca ttattctata gtatacctac tacaccata cctctcatca cacatacctt 180  
 aactatctta aaacaccaat ctaaatacct acacaatcca ccactatctc tatacatgaa 240  
 tcttaccata atcacacatt ttccactaca acccacatac atataacatc aaacatatct 300  
 accacattta ctcaaacaca acatcaggcc acaccaacaa ctacacctct aactatcaaa 360  
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<210> 13242

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-041-Q1-K1-E10

<400> 13242

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 ggctgctggg tttgtcaaag caagttggac aaagggcagc aactgttgca gttgtaaaag 180  
 ggttgccggc ttagccacaa actgctggta gaacggaagc aattgttggt gtgtcaagaa 240

agaagcgggg cttgtttag ctagctggcc aaatggtagt agtatttgct gctggaaata 300  
 agcagagggg ttcaagtgcg cgaattgggt aaatggaaga aattgttgct gctgagagta 360  
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<210> 13243  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-E2  
 <400> 13243

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 ggaggggtgga gggcaaagac atgaattcgc ataaattaaa tatgcatgta atatctatat 120  
 ctgcattgca ttttgtgaaa tatgatgcat gcatggtttg tatattccgt aataaccagt 180  
 agttggtaag ctatgtgtgt gtatggatgt actagctagt acatgcaccg tatcattgca 240  
 tgtgtggtat atgtctcgtt tgggtgtagt aatctgcttg gttgtgctga tgactgatgg 300  
 ttgtaagaag caaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaaac caaa 354

<210> 13244  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-041-Q1-K1-E3  
 <400> 13244

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 aggccgcaca ggataagggt aagggccagg cgctatcaaa ggctgctaaa gaggccgcca 120  
 agaacaaggg gaaaggggaag agtgctgcag atgacgatga tgaccagaaa caggtagctg 180  
 tgccgcggaa gtggcgtgac tacagtgttg agttccattt cccagagcct acagagctca 240  
 caccacctct ccttcagctc attgaggtag ggtttagcta ccttggtagg ccagacttca 300  
 aactctcagg tgttgatgtt ggcattgata tgggaacacg tgtagctatt gttgggcccc 360  
 atggagctgg gaagtctacg ctgcttaatt tacttgccgg tgatcttatc ccaa 414

<210> 13245

<211> 310  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-E7  
  
 <400> 13245  
  
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 tctacttcag gtgtcagatc cggagaggac cctccttct cccgctcggc tactttaacg 120  
 gcccatgggt gaccgcgctc gctctggttc tgatcaccat ctggtgggga gtaggcgagg 180  
 tagcgagact gagcttcttg aagcaaaagc tgttctccag cttgacatgg cagaggaaca 240  
 tatgcgatgc gtacatactt tccaacctag ggttcgcgga gccggggatc ttcttcgcat 300  
 tcgctttcct 310

<210> 13246  
 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-041-Q1-K1-G10  
  
 <400> 13246  
  
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 aggagggccg aggcaatgag gaccgagtaa cactcatcaa ggattatcct ggcaagattg 180  
 agactgagct gaccaagatc tgtgatggca tcctcaagct gcttgagacc catcttgtgc 240  
 cgtcttccac tgcccccgag tccaaagtct tctatctcaa gatgaaaggt gattactaca 300  
 gataccttgc tgaattcaag actggagctg agagaaaaga acgccgctga gaacacgatg 360  
 gtggcataca aagctgcca ggaccatgct ctggctgagc ttgctccaac tcacctatt 420  
 aggtttggac tggcacttaa cttctcagtg ttctactatg agaatctg 468

<210> 13247  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-A11



<400> 13247

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atccatagag caacaatggc taccaaaata ttgtccctcc ttatgctcct tgctctctct 120

gcatgtgctg ctaacgcgac aattttccct caatgctcac aagctcctat aactatcctt 180

cttaccat accttacatc aacgatagct tcagtatgtg aaaacccatc ttttcaacct 240

tataggctac aacaagcaat cgcagcaagc aacatacctt gatcaccctt gtttcaacaa 300

tcgccagccc tatctttggc gcaatcattg gtacacacca tcaaggctca gcatctgcaa 360

caacttgtgc tacc 374

<210> 13248

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A4

<400> 13248

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aaacaaacaa aataaaaaaaaa aaaagggggg cggttttata agtcccaaac ttccgatccc 120

gtgaatacaa cgccataatt cttataaacg gcaccaaact tcaatcaact gcccgctat 180

a 181

<210> 13249

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A6

<400> 13249

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ttaataacag tgcaccttc atctcatgat taaaatatag agagatgcaa aggaggttca 120

ggaacaaaaa aacaacttgc taaataaaac actgctatct actaacaac atctaacagg 180

ttctaccag tactaaaaca caagtaaaaa ccgttcagat gttctaactc ctctctctct 240

ctctctctct ctctctctct cttttcactg agagggttagc ttcgggtcaa tccgtcagca 300

agccaaacac actgaacgcc gccaatcgga tgcccagcca tgacggccaa aacacct 357

<210> 13250

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-A7

<400> 13250

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ggcgatccgt gacgaggttg agcttggaag gctgttgac agcgtgacca ttgcttaccg 120  
tggagtgctg gccaatatca accgtgttct gctgcccatt atgacggcgg agaaggcgtc 180  
cagtggcggg agcaaggagg caaagtcgtc catgaaggcc gccctgttct ctactaacgc 240  
atagactgac tgttcggagt gatctgatgt ttagcagtag cttgtttacca gaatgctgag 300  
atgcgtatgc tgcagatggg acgaatgtgc ttgtatgtgt atgtaggctg ctgtaagtgt 360  
aactttgcta ttacaatgg aagaagaaat 390

<210> 13251

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-B11

<400> 13251

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tctaattctgt acaatgacct gctgatggtg ttctcggttc gagaagagaa aacggtccca 180  
caactcgta attcaaagca acccatccgt tgtggtgaac aggggaaaac ttctgatttg 240  
ggtgatgcat cggagtccga ttccgatggg gattgtcaat ctggcaaaga acttgacca 300  
ccagttcaga agcatacaag agccaaccgg aagcatatag atagcattac tttagttgat 360  
atagctcagt acttccatct tccaatccga gatgcatcaa agacactcaa gattggggtc 420  
agcatattga agaggaaatg ccgacagt 448

<210> 13252

<211> 301  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-B12  
  
 <400> 13252  
  
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 ggggtgagctg atcgagatcg gccgcgtggg atgttgagta ccgctgcttc gtcagctgcc 120  
 tcgcctgtgc caccggacgac cactccctcc acaacgcctt cagcacctac agcgagggtcc 180  
 tctagtccaa gatcatcctc gatcgggata cgcagaggtc ccgcagattc gggttcgtca 240  
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 a 301

<210> 13253  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-042-Q1-K1-C10  
  
 <400> 13253  
  
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 catttggttg cacanaacat cagggcacia cagcgacaac aactcgtgct agcaaactt 120  
 gctgcctact ctcagcaaca acagtttctg ccattcaacc aactagctgc attgaactct 180  
 gctgcttatt tgcaacaaca actagtacta ccattcagcc agccagctgc tgccctacccc 240  
 cagcaatttc ttccattcaa ccaactagca gcattgaact ctcttgctta tgtacagcag 300  
 caacaactac taccattcag ccagctagct gctgtgagcc ctgctgcctt cttgacacag 360  
 caacaattgt tgcgtttcta cctgcacgct gcgcctaacg ttggcaccct cttacaactg 420  
 caacaattgc tgccattcaa ccaacttgct ttgacatacc cagcag 466

<210> 13254  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-C4

<400> 13254

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cgttgaaagc tgatgacagg ggaggggaag ttcacaaaga tctcgttct atgcagccac 120  
tttcaaacca gaaaggaaat tcttaaattc tcattaagct tggttcttac caggattaca 180  
agaatggaaa ttcttaacct tattaacc 208

<210> 13255

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-C5

<400> 13255

tcggttcgga attccccgggt ctactccact cgtcctccca ctcgtcctcc cacgcgtccg 60  
cctactcgtc cgcccacgcg tcctaaaaag aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaata ataaaaataa tataaaaaatt attaacttct taaacttatt catacaactt 180  
tataattatt atattatatt atctaatttc attaacttaa tctacttact cacatctttt 240  
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<210> 13256

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-042-Q1-K1-D2

<400> 13256

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gggccgcttc ctccctcgcc atggggctcg ttgctgccgc acgccgtgcc gcgtcctcct 120  
ccgtgcccgct cctcctccgt gcctccgcct cctcggggtc ccaccgcagc gccgtcctgc 180  
tccggcccct cgctgccgcc gtggcgccgt cgaagccccg cgcgatgccg atctcctcgg 240  
cgcccgcgac gagaccagc ttcgacgccg agctactcag cgtcatcgac tccgagatca 300  
agtacgccga ggactgcgat gaccacgaca ggggtgcgga gattccagaa aatgtccctt 360

tcaaaatcag cgacgagaag gggacgaatg cagctaccct taaaagaaca tatcaagggtg 420  
agcagattga 430

<210> 13257  
<211> 239  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-D6

<400> 13257

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ctgtttgaga attctttggc cagaacgaag aagaattctt tttttcttcc ttgctgggtat 120  
tcatcatatc tgcgaggata cgaactgatt aattagacct agtcgaactc atatatatac 180  
atagtgtgta aattcaaata agatgatgga acagggttata tgcaattctt tcgcttcaa 239

<210> 13258  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-E3

<400> 13258

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ctatctgcaa tgtgttgcta acgcgacaat atttccctca atgctcacia gtccttatag 180  
cttcccttct tccccatac cttccatcaa tgatagcttc agtatgtgaa aaccatctc 240  
ttcaacccta taggcttcaa caagcaatcg caacaagcaa cataccttta tcacccttgc 300  
ttcaacaatc accagcccta tctttggtgc agtcattggc acaaaccatc agggcacagc 360  
agctgcacca actcgtgcta cctgttatca accaagtatc tctggcaaac ctttctacct 420  
actttcagca acaacaattt cttccattca accaactgtc tacattg 467

<210> 13259  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F10

<400> 13259

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gtcgagtcaa aagatgagaa ttgaagcgt aatgtaacgc ttagaccaa tgcctggctct 180  
gaacatacat atgatcagag tgatgagggg gagctctgtg agcttcagac tacggaatac 240  
agataatddd ggaccaagtg cttggagttc acttggattg gattctgctg aatdddctgg 300  
tagggcggcc gctatagatg tatcaaactt acatacccggt gcatgctact gcttacctgt 360  
ctgatagtgt 370

<210> 13260

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F11

<400> 13260

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atagtgttgt gaggtatgct gaagagcagt tgatgatgag aaatcagcat cgcacatcc 180  
actggcaagc aaggctctgc aagttgaatg acatagttaa aaggggcaac aagtgtgata 240  
tcacccctcaa ctatcacaat ttgttgttcc aaaggatcat cttaaaccatc agtgatacat 300  
ctagcatatt tgtgaacaat tcactgaatg gaaaccaaat tggaaagaca tttccaaatt 360  
tggaatgcac tttggcattc aatdddgttd tcgaagccga ggagaaccaa agagtttagtg 420  
atttacagtc cttgcagaag aagacaatgg aaa 453

<210> 13261

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-F12

<400> 13261

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gctgggtccc ctgcacctgt ggtggacggc actgtacctt ctctggttgc tctactggc 180  
tgggaccaag cagccccgcc accgactgcc caaggctggg agtaggcggt gtccactctg 240  
agacctgtct tctgcggctg aagttcagta tttttctgtg gtctgaatgt ccaaattccg 300  
gtggcatctt ctatagctat gctctgcttt gctttgaaca cttgagtttt agggctatct 360  
agctgaacct gttgtgcaat attgctgacg ttgaaatfff tggttaatct tataactgga 420  
aatgatgc 428

<210> 13262  
<211> 384  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-G12  
<400> 13262

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agtggggata cagcaccgcg gtggctgacc tgatccgtca catgaacagc accaactaag 180  
atgaagaact caagtcaagg tctggtgata cgagcgagtt gtcttcttcc cccccgggag 240  
aaaagtgctt acgagaataa attttttcca tcggaatgtc tgaaactatg ttgggtgtat 300  
cctagtgggt ggttgagcat taatggctca tattttgtca ggtctatgtg tcgccgtgaa 360  
acttttaatc aaatcagttc actc 384

<210> 13263  
<211> 179  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-042-Q1-K1-G2  
<400> 13263

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aaaagagatc taataaaaaa actaagggcc ggcccttcta acgaatcaa ccttacttcc 120

cagtgtttac gacgtcaaag ttctttctaga gctcacctaa attcacttcc ctacccctt 179

<210> 13264

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-G8

<400> 13264

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caacaaatgc gttcattatt ccacaatgct cacttgctcc tagtgccatt attccacagt 180

tcctccctcc agttacttca atgggctttg aacaccagc tgtgcaagcc tacagggtac 240

aacaagcgct tgcggcgagc gtcttacaac aaccaattgc ccaattacaa caacaatcct 300

tggcacatct aaccatacaa accatcgcaa cgcaacagca acaacaattt ctaccaacac 360

tgagccaact agctgaggtg aaccctgtcg actacttgca acagcaattg cttgcatcca 420

accacttgc tctggcaaac atagttgcat accaacaaca acaacaat 468

<210> 13265

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-042-Q1-K1-H10

<400> 13265

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caaggcggat gccaaaggccc gaggtgaggt gatcagcacc aagaggcagt ctgtgggacc 180

caaacctggc ttcattggtg aagggtgtac actcgagaca gtcactccta ttccttatga 240

tgtggtcaac gatctcaagg gcggttacta gagagaattt ttgtacctta agcagttcaa 300

acgagctggc aaacttatat gaatcttttt gataattggc tagttcttct gttctggtgt 360

tatgaactca tgtggctatt gctgttggcg tcaaaagatt tttattattg ccatggttga 420

ttgcaacctg gtatcttacc ttc 443



<210> 13266  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-H12  
  
 <400> 13266  
  
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 gtcattgtcct gctcattcac taaccaggtc attgcccaac ttgaactgtg gaaggagaag 180  
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 gctgctctcc acttgggcaa gcttgggtgcc aagctgacca agctcaccaa gtctcaggcc 300  
 gactacatca gcgtgccgat cgatgggtccc tacaagcctg cccactaccg gtactaggca 360  
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 cct 423

<210> 13267  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-042-Q1-K1-H3  
  
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 gggcgccggt gccggccaag aagaagacgg ataaagtgc gaaccctcta ttcgagaaga 180  
 ggccgaagca gttcggcatc ggcgggggtg tgccgccccaa gaaggacctg caccggttcg 240  
 tcaagtggcc caaggtcgtg cgtatccagc gacagcgccg catcctcaag cagcgccctca 300  
 aggtaccacc ggcgtcaac cagttcacc gcaccctcga caagaacctc gctacgaacc 360  
 tgtttaagat gcttctcaag taccggcctg aagacaaggc tgccaagaag gagaggcttc 420  
 tgaagagggc ccaagctgag aatgaaagaa aa 452

<210> 13268

<211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-A1  
  
 <400> 13268  
  
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 tgatgataag ctgtccaga cgagaatctt ctctatgct gatacccaga ggcaccgtct 180  
 tgggtccaaac tatctgatgc ttctgtgaa tgcacaaaaa tgtgcccacc acaataacca 240  
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 gtttgat 307

<210> 13269  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-A11  
  
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 tgacgcggac atagttcgaa taatgaatac tcggaatgtc ctcaaccaca cccttctaata 120  
 aactgagctt taccagcaga tcaagttcca tggcaagcca gctgatatca ataaaagaat 180  
 agacagcttg atcgaccggg agtacatgta ggcgcacagg agtaacaccc agatctacaa 240  
 ctatctggct tgacaacggt ctggtggatc gttcgcattc cattactatg agacataggc 300  
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<210> 13270  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-A3  
  
 <400> 13270  
  
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cttccgaagg ccgccttcaa aaaccggtag aaccatactt tatcttccac cccctactac 120  
cacctgaaga agacgtccgc ttgctacctc tgcactgtca ctgtccccgt ctacagcacg 180  
ctgtacctga ccaacctgaa cgtcgcttcc tgcaacgacc tgccgatctc cttcgcccgcg 240  
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<210> 13271

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B1

<400> 13271

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ccagtataat gccgattaac caagacggct actagtacaa tacaccgaac tacagattcg 120  
tgctcgcgat ttaccagaca cgacatcaca acccatagca tatctgctag gatagcacgt 180  
gacatggctc ttgttatctg cactcgcgat gagatgacac gaaactgtct caaagttcct 240  
ctgaccaact attcag 256

<210> 13272

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-B10

<400> 13272

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ccccaggaag gacatgacag gacaggacac gacacgacac ggcgccaaca tctcggtaca 180  
attattcggt ccccatcag taccaccact agagcaaggc gatggagcag atagagcgag 240  
gcatgctatg ccatggccca tggcacgcgg ctgactgtct aactgactcg aacaaaacac 300  
agcaaacgac actgctagaa tattatatac tagctagagc ttattaatta gctagagaga 360  
taaagagtcc ttc 373

<210> 13273

<211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-043-Q1-K1-B8  
  
 <400> 13273

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 cgtagctccg aaggccgcag catcaggcgc gggggccctc gcgtgtgacc gagatggcgc 120  
 tgccgaatca ggggaccgtt gattacccca gttcaagct cgtcatcgtc ggcgatggtg 180  
 gaactggtaa aactacattt gtgaagaggc atctcactgg agagtttgag aagaaatatg 240  
 aaccaaccat tgggtgtggaa gttcatccgt tggatttcac cactaactgt ggtaagatca 300  
 ggttctactg ctgggatacc gcanggcaag agaagtttgg tggcctcagg gatggatact 360  
 atatccatgg ccagtgtgcg atcatcatgt ttgatgtaac ttcaaggctt acttacaaga 420  
 atggtcctac gtggc 435

<210> 13274  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-C10  
  
 <400> 13274

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 gtcgtggcag gcgtacgtcg acgagcacct gatgtgcgag atcgaaggac agcatctcag 120  
 cgccgccgcc atcgtcggtc acgacggcag cgtttgggag cagtccgaga gcttccccga 180  
 gttaaagcct gaggaggttg ctggtatcat aaaggacttt gatgaacctg gtactcttgc 240  
 accaactggt cttttcgttg gaggtacaaa gtacatggtg atccaagggtg aacctggagt 300  
 tgtcatccga ggaaagaagg gcaactgggg cattactatc aagaaaaccg gcatgtcctt 360  
 gattattggt gtctacgacg agccaatgac tccagggcaa tgcacatggt tgggtggagag 420  
 gctcggc 427

<210> 13275  
 <211> 407

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-043-Q1-K1-C3  
  
 <400> 13275  
  
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 ggagaagttt gaaacttggg aggagattaa aattatgagt atgggtatttc ttatattatc 120  
 tacgctatgc atgacttgct gggctctattc attgtctaata taaaatatg catttctaac 180  
 aatgttattg ttcttgtggc ttttctctga tttcttacgt ttcagaaaaa tagtttctgc 240  
 aatgtgggca atgacattgc ttagcttgta tgtagagtt catgtcacca tattaggtac 300  
 ccatctctac taggattttg cccagtgtac aaatgggtgca cagttacaag tacatctatg 360  
 ctccagcctn ctcatcttat gctcaagcat tatcgtatga atggcctt 407

<210> 13276  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-C9  
  
 <400> 13276  
  
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 tcttctctaga tctgattgta ccatataaat ctgtcacaaag tcttgccctct ctacactgat 120  
 cttattttgta gtctgcatgc tccatgtccc ttggccttgg ggagagcacc ataagcgctt 180  
 catcgggtgct tgccatgcct atgggtctcgt caagaacaac cggcttcaga ggaatcgaaa 240  
 atgaccgtcc aaagtatgtc cttttaagaa ccaactgattg gagtaaccta tagctgatgg 300  
 taatatatag gtacacagga aaggctctttg tttttttatg ttgcctagcg gatggcagtg 360  
 aagttttttg ttgcttcag aggcgcaact gtttgttgtg atcgtagcta gctat 415

<210> 13277  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-D3

<400> 13277

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ttgcaaacat tcggctggag atgaactaca gccctgagaa gttcaagtta tcacagccgc 180  
ttatggaggt gcttgggggtg gaggtggaca ctctgtcacg ggtgattgct gccctctggc 240  
agtatattaa agcaaagaag cttcagaacc caaatgatcc ttccttcttc atgtgtgacc 300  
ctcaattgaa gaagggtgtt ggggaggaca agtcaagtt tgcaatgttg tcacagaaga 360  
tatcttaaca tctgtatgcc ccaacaacca ttaatttgga gca 403

<210> 13278

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D4

<400> 13278

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tgcacgcagg atgttcatcg agacggttgc agcccagcat gaagagcggg aagaagagga 120  
tagtgactaa gcttatattg tttgtgtttg cattcctcag ctggcagatt caatttggtt 180  
ccaacgttca ctgatactat gtgatattgt ggggtcaaatt ttccagggtt ttcttattac 240  
ctggttgagc gcttgaatct gtcaacagtt tatggatcat attgcattac agttagagat 300  
gtctgcgtgg gtcagcaaaa tcttggtgtt agtaaccttt tgagctgtga cataacttct 360  
ttatcttatt taacacatca aagatgatta gtgcacttat atcgttgcac gataaat 417

<210> 13279

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-D6

<400> 13279

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tgcaacaatt gctgccattc aaccaacttg ctttgacaaa cccagcagcg ttctaccaac 120

aacccatcat tgggtggtgcc ctcttttaga ttgcttatga gttatagttc aataataaag 180  
 tttttttgat gatgtttgtg gcttcccaga aataagaaag tacatttcta a 231

<210> 13280  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E1

<400> 13280

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 cgcactcttg ttagacgtct gatctgaatg tctaattcca catgacacat tttgtaaaaa 120  
 ggctgtagct tcttttagct tattagactg ctaatacact catctgaatg atgtccagtt 180  
 ccatcaacaa ggctttaccg atactgtcga gtgactgac aggatcatgt ttcttggttc 240  
 acgtcttgct tctgtgcatt tgcctaataa acccattcgt tgtaaacaag ccagttctaa 300  
 ctttaaaata aagggcctgt gcatggcgct ctaaaa 336

<210> 13281  
 <211> 186  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-E9

<400> 13281

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 aacaaaaaaaa caaaaaaaaa aacaaatagg ctcccgatct agacaatcac caccttacta 120  
 acgctttcat cctatctcat agtctctcta tcgtctgacc taagtttaat tcaatgacca 180  
 cctcta 186

<210> 13282  
 <211> 213  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G1

<400> 13282

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 aaaaaaataa ataaataata aaataaagaa gagatttcta actatctaaa aaatccaaaa 120  
 cttacatata catacatata acatcataaa ctcttctata atatcaccta aattcaatta 180  
 actaaaccat atatttataa cataataact taa 213

<210> 13283

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-043-Q1-K1-G3

<400> 13283

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 aacctgaaca actggcgaga agagtttcga gtgcangcta gcccatcaga tcctgataat 120  
 ttcccttttg ttctgttggg taacaaagtt gatgtagatg gtggcaacag ccgcgtggta 180  
 tctgagaaaa aggcaaaggc atggtgtgct tccaaagggga acattccgta ctttgagacg 240  
 tctgctaagg acggaacgaa cgtggaagac gccttccagt gtatcgtgaa gaacgctctg 300  
 aagaatgagc cagaggaaga actgtatgtg ccagataccg tggacgtggg ggggtggcaac 360  
 cgggcccaaa gatcatctgg ttgct 385

<210> 13284

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G4

<400> 13284

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 aagcattcac atcacatcat ttgaaaatct tggtagcgcg aagggttgttg aagcttcctc 180  
 cagttcagac aagaacatgg cctgtgatcc ttcatggaca gcatgaatgc ctgttatcga 240  
 ggcacctgat cctgctttgc aggtgaatgc tcggaggcac ggaaccagaa acaggacttc 300  
 caccgtgaaa gctttagaag ctgatgcgtt tggacttctt ggaagcggga agcgtaaggg 360



tgacatgaag aacagggcga caagc

385

<210> 13285

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G6

<400> 13285

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acttctatatt gcaggagcat cctgatctca tcaatgatat gctgaatgtg cttgcacttc 120

gttttagatca taccagagtt gtagacataa tgcgcaaggc tgggtcaattg catcttgtga 180

aaccatatat ggttgcagtt cagagtaaca atgtctctgc tgtgaatgag gccttgaacg 240

aactttatgt tgaagaggaa gactacgaga gactccgtga atcagttgat atgcatgaca 300

actttgacca aataggtctt gccagaagc ttgagaagca tgaattgctg gagatgagga 360

ggattgctgc ctacatttac aagaaggctg gcagggtggaa gc 402

<210> 13286

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-043-Q1-K1-G8

<400> 13286

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tgccagcagc tgatgcaggt ggagcctcag caccggttcc agacgatctt cggatcggac 120

cttcagctca ttctgcagca tcagccacat agaggacagc tagtggcgct gctggctgcy 180

caaatagcgc agcaactgac ggcgatgtgc ggactgcagc atacgactac atgcccatac 240

gctgctggcg gacgtgaacc gactgaagaa actatgtgct gtactatagc cgttggctag 300

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ggtggaacga acagtgtgaa caatagcctg 390

<210> 13287

<211> 301

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 13287  
  
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 gccattaacc accatgtttg ctctggtact cctctggttc ggcatctccg tgccattggt 180  
 ctttatcggc agctacctcg gcttcaagaa acctgccatg gangaccag tgaggacaaa 240  
 catgatagca cgggcaatac cggagcagcc atggtacatg aaccccgctg tctcgggtgct 300  
 g 301

<210> 13288  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-043-Q1-K1-H6  
  
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 catgtcagat tatgtaactt cagatatttc tgtttttggt agaaaagtac caaaatagtt 300  
 tcacttcacg gctactctca gatgtgttat tgctgctgcc actaatcata taagggtaac 360  
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 ttgtttc 427

<210> 13289  
 <211> 203  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-A12

<400> 13289

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gatgccattt actaccatga acccatggat tcaatactcc atgaagcaac atcctgttgc 180

caacttgcta acgtaaacca ccc 203

<210> 13290

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-A5

<400> 13290

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gagcggcata ggcgcgtgca tggcgctcac gaacttcac ctcacgggtg tgggggtggg 180

cgcggcggtg atgctgctgc ggaaagacgt caagcagtcg gccaccgtct tccgcgcgaa 240

cgtgcgccac atccgcaact ggctcgagga ggagtccgcc gccgccgtca aatctactga 300

acagtcttca gtgaaggagt tggagtccca agctgccaaag aaagacgctg tgcccaagga 360

cgacaaacat tagatgatct tacaccctgg ttcttctaata gcgtnggcag tttgaggtcc 420

aggattttga attggtcctt taaaaaaatg tatgtg 456

<210> 13291

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-A6

<400> 13291

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gaacgacgaa tccacacgga gtgtaagaac cgcttcttct cctctagtcc tctgaggaga 180

tcggtcggat cagaagactg acgagacgat cgcagagacc acggcgagcg cgacgctgcc 240

tccgacccca gcctggagcc tgataacggc gctgtcgctc gccgggctgc ctccggctga 300  
 tggcgtgata ttgggaggtt ttgcaaaaa gcccgtagtc tggcgagccc gggtttcaggt 360  
 taaccaggtt gatgcaaacc gagacgttgg cgttggggag gctgcaggcg gcggggagcg 420  
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<210> 13292

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B11

<400> 13292

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 ggtgtgcatg ttgttgttgg tacacctggt cgtgtgtttg atatgctgcg cagacagtcc 180  
 ctccgcctg ataacatcaa gatgtttggt ctagatgaag ctgatgaaat gctttctcgt 240  
 ggtttcaagg atcagattta cgacatcttc cagcttctcc cagccaagat tcaggttgga 300  
 gtcttctctg ctaccatgcc ccctgaggcc cttgagatta cccgcaagtt catgaacaag 360  
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<210> 13293

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B12

<400> 13293

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 catgggggcc tatctccgga gttgaacaag cttgagcaaa tactcaacct gaatcgcccc 180  
 acagacgtgc ctgatactgg attgctctgt gatcttcttt ggtctgatcc ttccaatgaa 240  
 gcaacaggct gggccatcaa tgatcgtggt gtttcattca catttgggcc tgataaagtt 300

tctgaatttc ttgagaagca tgatttggac cttatctgcc gagcacatca ggttgtcgaa 360  
 gatggatacg agtttttcgc tagccgtcaa ctcgtaacaa tattttcagc ccctaactac 420  
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<210> 13294

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-B3

<400> 13294

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 ataagcttag atacactagt acctgcaaag tttgacttca tgacacggcg tcaaggacac 180  
 tcagaggtct tgtaatcaat agatgctgct gtaaaacttg ggtatagccc tgttaaggtc 240  
 aactgtgtca tcatgcatgg tataaatgat gatgagatct gcaattttgt tgaattgacg 300  
 agacacaagc ccatcaacgt tagatttatt gagtttatgc catttgatgg taatgttagg 360  
 aatgtgaaga agctagttcc ttatgcatag atgttggaca aagtgcggca aagggtttaa 420  
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<210> 13295

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C2

<400> 13295

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 ctctagaaaa ttcaaggatg agatcgctcc catgccaca aagatcggtg atcctaaaac 180  
 tggagaggag aaggaagttg tgatattagt tgatgatggg attaggccat ctacttacct 240  
 gctatatttt ttctgagcaa agtcgggttaa acttgtgatt ctttgtatgt tcaggtgccc 300  
 ggtgcgtggc tactcttcta aatgaaatga actgccgggg cagagactgc agaattggtg 360

ttgtcaccat gtggattgga tctggaatgg gggcaacagg tgtgttcgaa gtgtgttc 418

<210> 13296

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C4

<400> 13296

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actaccttgc tgagttctcc atctcctata agccgggtcaa gcatggcagg cccggtatcg 180

gtgccaccca ctctcgcggg tttattcctc tgaaatgagc tgttaccggg ctctgtagtc 240

tcccaagagt cagttggcaa tgttcgttca gctttttctac ttgttttgaa caagttaa 300

gcccaagata ttttgttttg ttccattcca gctcaagaat tcaaagctaa gcattgcaca 360

attatgctgt tttgttgga gtttttgagt taatcatatc taagctgagt tgct 414

<210> 13297

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-C6

<400> 13297

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cgtcgtggga ttctacggac gcgcgggaac caggctcgtc gacgctatcg gtgtctacct 180

gcgtcaactt tgatttcaac ggcattgatgc ttgatttcaa atagatatat taattagttc 240

ctcgtcacag tcgatcctgt gtcaaataat aaagaagctc ttgtatgcat gtgtatatgt 300

tagtccttcg ttctgtatgt gtcaaataaa ggttgatcaa aaagacctaa aaaacaaaaa 360

atacagctga gcatattaag acacgtataa taaagacgag atatatagaa caatgaat 418

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<211> 459

<212> DNA  
 <213> Zea mays  
  
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 agggccatgg gttggcgccg gagatcccg aggatctcta cttcctcatt aagaaggccg 180  
 tggcgattag gaagcattct gaagagggaa ccaggaaagg accaaggact tccaaaattc 240  
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 aggcgtacca agaagctccc acccacctgg aagtacgagt caaccacggc gagcactctg 360  
 gtggcctaag tgatatactc tgatggcttg gtcttttagca cctatgagct tgttctagat 420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-044-Q1-K1-D4  
  
 <400> 13299  
  
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 gaaagtttgg aatccaaaca tctacataac ggaaaacgga atggaccaac ctggaaactt 180  
 gacccgagac cagtacctgc gcgacgccac gaggggtgagg ttctacagga gctacatcgg 240  
 ccagctgaag aaggccatag accagggagc gaacgtgggt ggctacttcg cctggtctct 300  
 cctcgacaac ttcgagtggc tggcagggtg ctcgccaag ttcggcatcg tctacgtgga 360  
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 gaagcattga gatctccaga gccgagcctg agca 454

<210> 13300  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E5

<400> 13300

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tgttgcaaca attgttggtg caggtatgta ggtgcattgg ccacagcgag cgggctagat 180  
gaaagcagtt gttgctgttg taggtaggcg gcagggttca ccatggctag ttgactgagc 240  
gctggcagaa actgttgagc ctgttggttg ggctggtttg caactacgtt tgccagagca 300  
agtgggtttg atgcaagcaa ctgctgttgc aagtaggcgg cagggttcac catggctagg 360  
tggctcagtg ctggtaggaa ttgttggtgc tgttgcgttg c 401

<210> 13301

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-044-Q1-K1-E8

<400> 13301

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actcgagcag ggttcgatg gcgctgcaat ggatgacctt ggcgtgcgtg gtggcggtgg 180  
aagctgcggt ggctgcgctg gtcacgctcc cgggtgcccc cgctgtgcgg ggccagatcg 240  
tcgcgctcac gtccttggtc ctgcagcccc tgtccagtgt gatacccttc ggcgcttcc 300  
agatcctcga tctctactgg aagaaggagc acagactgat gtgcacctcg gagatttgca 360  
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<210> 13302

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-044-Q1-K1-F9

<400> 13302



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 cgcacaaccc gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc 180  
 cgcgcctccc gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg 240  
 cgtactgccg gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg 300  
 acgcgcagct ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg 360  
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 ccgaatgccc 430

<210> 13303  
 <211> 116  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-G12  
 <400> 13303

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<210> 13304  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-G2  
 <400> 13304

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 gacctcaagg cctccgtgat gatgggagcg gacacctatg aaactgaaga agaagcttca 180  
 aagctactgt tagctgggaa ggtcccagtt ggaataggaa ggaacacaaa gataaggaac 240  
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<210> 13305  
 <211> 185  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3059-044-Q1-K1-H5  
 <400> 13305  
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 gtttacgtac gcttgcacgc tacttcatag ctcttctatg gggtcaccta atttaaattg 180  
 attgc 185

<210> 13306  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-044-Q1-K1-H8

<400> 13306  
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 cacgtcaact tctaccgcaa ctatggtaag acgttcaaga aaccaaggcg tccttatgag 180  
 aaggagcgtc ttgatgctga actgaagctg gtcggtgagt atgggctgag gtgcaagcgt 240  
 gagctttgga ggggtccagta tgcactgagc aggatccgta atgctgcaag gcacttgctc 300  
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 aaccgctatg ggctgcttgc tga 383

<210> 13307  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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gcctgggaaa tacagagtag ccttggaactc tgatgctctg gtcttcgggtg gacatggaag 180  
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gaacttcaac aaccggccga actcgttcaa agtcctttct ccggcccgca cctgtgtggc 300  
ttattaccgc gtgaacacat caggtgatga tgcacttacc aatgcattgg agatattcaa 360  
tacatctagt ggagctcttc acttcattgc atctaacaat gactgtagtg gtagagagta 420  
tgatatggaa ag 432

<210> 13308

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-A2

<400> 13308

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aatgctcaca agctcctata gcttcccttt tcccccata ccttccatca attatagctt 180  
cagtatgtga aaaccagct cttcaaccat ataggcttca acaagcaatc gcagcaagca 240  
acataccttt atcgcccttg ttgtgtcaac aatcgccagc cctatctttg gtgcagtcac 300  
tggtacaaac catcagggca caacagctgc agcaactcgt gctacctgtg atcaaccaag 360  
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<210> 13309

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B4

<400> 13309

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cgtgcgaagc aaagcgctag ggccgttcgt actgtcccga tggccgcac gaagcagacg 120  
gcgaggaagt cactggcgg caaggcgcca aggaagcagc tggccaccaa ggcggcgcgc 180  
aagtctgccc cggcgaccgg cggagtgaag aagccccacc gtttccgccc cggcaccgtc 240

gcgctccggg agatccgcaa gtaccagaag agcacggagc tgctgatccg caagctgccg 300  
 ttccagcgcc tgggtgctga gatcgcccag gacttcaaga ccgacctccg cttccagagc 360  
 tccgcccgtcg ccgcgctgca ggaggcgctc gaggcctacc tcgtcgggct cttcgaggac 420  
 accaacctct gcgccattca cg 442

<210> 13310

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-B6

<400> 13310

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 gtccaatctt gtctttggag atgcatctgt attcctactt ccttggaac gtctgtttgg 180  
 ggtgactgat tctcagattg acattgctat gagggaaaat gccagaatt tatactcggg 240  
 gcagctcaag tctattggaa gaggtcttga catatgcaca ctcatgaag taaggagagc 300  
 acaacttgca tataaactgt ctgatgagat tgctgctgag atgttccgtg agcacgcgaa 360  
 gcagctagtt caagataaca tttcatcagc attagacatc ttgaagtcac g 411

<210> 13311

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C10

<400> 13311

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 aatgctgtgt attgagcgac acacggctct tgaagcatca tttattccct cccaaacctg 180  
 taaacttaac gtggttcatg ttgtgtacag tcagatacgt ccaactatgt aaacctaacg 240  
 cacgttggtc tgtcgtgcta actaaactag agaggtagt aaagcagtac ttcgtatgta 300  
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<210> 13312  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-C6

<400> 13312

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tctgacatcc aagggtgaaag atgtatacgt ctgcaacgtc tatgtagatg tacttaatt 179

<210> 13313  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D3

<400> 13313

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ttccccgtct ccttggtcct ggtctcaaca aggcaggcaa gttcccgacc ctggttactc 180  
accaggaatc cctcgagtcc aagggtgaacg agactaaggc aaccgtcaag ttccagctca 240  
agaaggctct ttgcatgggt gtcgccgtcg gcaacttggc gatggaggag aagcagatcc 300  
agcagaacat ccagatgagc gtcaacttcc ttgtttccct tctgaagaag aactggcaga 360  
atgtgagatg cctgtacgtc aagagcacca tggggaagcc atacagggtg ttctaagtat 420  
gctcttttgt gaagtctgc 439

<210> 13314  
<211> 417  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-045-Q1-K1-D4

<400> 13314

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 agtatatttc ccggaacat gangaggata aggtgattgt gttcgaaaag ggagatttgg 180  
 tatttgtgtt caacttccac tgcaacaaca gctattttga ctaccgtatt ggttgtcgaa 240  
 agcctgnggt gtataagggt gtcttggact ccgacgtgg actatttggg ggatttagca 300  
 ggatccatca cgcagccgag cacttcaccg ccgactgttc gcatgataat aggccatatt 360  
 cattctcggg ttatacacca agcagaacat gtgtcgtcta tgctccagtg gaggat 417

<210> 13315

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-D8

<400> 13315

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 tccagggact ttctaatacag cctattataa tctgaagata aatcttgtat cacctgtccg 180  
 gtgaccata gtaatattat gttactcttg ctgtaagcag aggttaacac tagaaaaagt 240  
 attgtgattg gtctgaactt tttgtgcggg ataaagcatg tgattcagct caacttgact 300  
 tttccaactt taccgagcat atacaattgt gattaatata gaggctctta aggtgtttta 360  
 ataaccaatc caagcatgac aagcaaacc 389

<210> 13316

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E1

<400> 13316

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 ttgctaacgc gacaattttc cctcaatgct cacaagctcc tatagcttcc ctttttcccc 180  
 cataccttcc atcaattata gcttcagtat gtgaaaacc agctcttcaa ccatataggc 240

ttcaacaagc aatcgcagca agcaacatac ctttatcgcc cttgttgtgt caacaatcgc 300  
cagccctatc tttggtgcag tcattggtac aaaccatcag ggcacaacag ctgcagcaac 360  
tcgtgctacc tgtgatcaac caagtagctc tggcaaacct ttctccctac tc 412

<210> 13317

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-E3

<400> 13317

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ctttctaact gttcaatact cttgacattc tttgagtaaa ctttagatat cctctcatac 180  
attcattatc cagtacctga ttgtccattg tctctatatt ctttactgtg acatttatatg 240  
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<210> 13318

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-F12

<400> 13318

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taaaaaaatg ttctgaatac gctgaaagat atttcaatga aactgcacaa gatgtggtag 180  
tacttgagtc agaaagcact gatgaatctg aagtttgca ctgtgagacc attgcttgca 240  
cattctctaa ccttgataat catgctggga aaattgaaac tccaggactg cacagaaagc 300  
ggctccctag agttttccct ggagatacaa ctactacaca tgacatcatc aagcttcattg 360  
ggaaagagaa actgccagta caatacctgc cacagaggag acgaaatggt gaaaaggaga 420

<210> 13319

<211> 448

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F3  
  
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 ccgcatccg atatcacgct cggacctggc ggtcaccgag caggctcgtg tgcggctgcc 360  
 gccgttcccc taagtccg ccaccaatg ttctttgctc aaccatatta atctaaagat 420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F5  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-045-Q1-K1-F9  
  
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accacctaaa gctcgcacga tactacactc tcaaacatct ctaccaaact tgcattgatct 180  
tctttgaagt ccacatttaa cagatcaata ttcattctaac tactttggac gatactctga 240  
tttgaactaa atgtattaac tgtaacatag caatctctga agacgtacaa cattgaaa 298

<210> 13322  
<211> 89  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-G8

<400> 13322

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ctgtaagaga taatatggca tatttgcag 89

<210> 13323  
<211> 134  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H12

<400> 13323

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gttggtgggt tcgc 134

<210> 13324  
<211> 290  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H4

<400> 13324

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cgatgccttg gacaagatca ggtttgagag tttgacggac aagaccaagc tggatgcaca 180  
gccagagctg ttcattccaca ttgtccccga caaggccaac aacacgctga caatcatcga 240

cagcggcatt ggtatgacca agtcagacct tgtgaacaac cttggtacca 290

<210> 13325

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-045-Q1-K1-H5

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accattttcc cgcaatgctc acaagctcct atagcttccc ttcttccccc gtacctctca 180

ccagcgggtgt cttcgggtatg tgaaaaccca attcttcaac cctacaggat ccaacaggca 240

atcgcagctg gcatcttacc tttatcacc ttgttcctcc aacaatcacc agccctatta 300

cagcagttac ctttgggtgca tttattggca caaaacatca gggcacaaca actacaacaa 360

cttgtgctag caaaccttgc tgctactct cagcaacagc agtttcttcc attcaa 416

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A11

<400> 13326

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agattgctga agctgggtcat ggtaagcggg agtaggagcg aaccctgaat cgccccatga 180

gtgattgaag ttgttagaat cccttccgga gttatcaaca gatcattatg gaagcaagca 240

tatatggagc cgtattagga agctgacagt tatttgggtga ttgtacaact gttcttgcaa 300

ttgtgtatag ctggttgaaa tttagttggt ctgttgctaa tctgttccaa atacgtagta 360

gattcggagg caatataaac tttcagcaga gcattactga gtttcccttc gcagaccact 420

gacgacaatg 430

<210> 13327  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-A2

<400> 13327

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tttttggtgg gccacatact cggatcattt tgctaccata tggacaaagg tagcaaaaga 120  
aacaaaagga tatgcaaaca gcagcagttg aagtaggatg tacatattca ggggaatttg 180  
acctgttact gtgcaccggg aatagctaca ctcatgaaa atcatgccac tggcttatac 240  
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<210> 13328  
<211> 375  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 13328

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ggcccagggg ccgcaacctc aacctcatcc gggaccagct ctccagcgac ccgctctacg 120  
acgtcgagtg gaccaacggc acctnctact tcttcgactc cgggtcctgc cgcaccatgc 180  
gtttccccgt ggggatcctg ccgcctgact ggctcgccgc cggcgccgtc tatctcggcc 240  
gcgagcacgt cgacggcttc gactgccacc tgtggaccaa ggtcgacttc gtctgggtact 300  
acgaggaagt cgccaccggc cgtcccgtcc gctggaattt cttcaatggg atgcagcagc 360  
atgtgatgag ctttg 375

<210> 13329  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-C6

<400> 13329

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gaggagaccg cctctggttc gggctccgag gaggaggagg aggaggagga ggaggaggat 180

gatttgagga ccgtccactc accgtcttcc gtcgctccca agagcgtagc tccgatgccg 240

cataacgtcc aagagcccga agcgtccgac gaggatgagt atgacgatga agatgacgag 300

ccgtataagg tacaagaacc cgaaacgttc gatga 335

<210> 13330

<211> 430

<212> DNA

<213> Zea mays

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<400> 13330

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atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca atgctcacia 120

gctcctatag cttcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180

aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240

tcacccttgt tctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300

ttggcaciaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360

tactctcagc aacaacagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420

tatttgcaac 430

<210> 13331

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-E9

<400> 13331

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ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa atacaaataa ctacaaaaat 120

caacaaataa aaaataaaaa aaaaaaaaaa aaaggccacc ctttttaaag gttcaaagtt 180  
tacttcccct tacttccaac ttattacctt ttttataggg tcccctaaat taaattaatt 240  
gcccggttttt ttaaaactta ttaactggaa aaaccttggc tttaccaaat ttaatccctt 300  
ttaaaaaaat ccccttt 317

<210> 13332

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-F10

<400> 13332

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aagaagaaga tcaaggctgc cgtcaagaag atgtatgaca tccaggcaaa gaagggtcaac 180  
accttgatca ggcctgatgg gaagaagaag gcttacgtga agctgactcc cgactatgat 240  
gctcttgatg tggccaacaa aatcggcatc atctaagtgc tgcattaggc atcctagttc 300  
atctgttgtg tcttagttct atgtgaaacc agagttttgt agctatggct ctcaatcggt 360  
ccattaccat gtgttatgca cacttctgaa tttgatatca tccaagtgac cttttgaaact 420  
agtttgcgtt ctgcacttca ttacacttgg acacc 455

<210> 13333

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-G4

<400> 13333

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ttagcggcga cgatcgagtt ctcatgcgag acgcgtgagt cgcgccggga attcaggacc 180  
ggcacatgct ggcgtacaag ctgtccctat tgtgagacgt attagctcac tgtttaattc 240  
agttcaagtc ttatgtgtat cttgccttgc tatccgagta ataatactga ggatgtggta 300

gtcatgatat atgtttattc tctgttggtt cctatcttat gcaattattc ataagagatg 360  
 ctgccaaaat tttattattg taccattgta agtatt 396

<210> 13334  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-046-Q1-K1-G5

<400> 13334

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 agaacatgtg agctccgggt atctattgcc tttgttttgt taagccattg agtcaagctg 180  
 caattcttaa tgaccatttt acttcaatcc cgttttcttc agttctgtgt ttgttctgac 240  
 taacgatttg tattcaatgt ttttttctgt ctttctctaaa actcttaaag gcaagaaaaa 300  
 attgcacaag gaaaaacaca agtctcgatc tgaaaggcct caccgccaat ctaatatcac 360  
 cgaactggat aaaggcaaaa aacgacctgc acaa 394

<210> 13335  
 <211> 158  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H1

<400> 13335

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 tctgaatgcc acagccacct gcttgatca atctatgatg ttggcagtct tgagaacacc 120  
 actgtgactt gttaaactctg tatgcttatt cccaaaaa 158

<210> 13336  
 <211> 140  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H3

<400> 13336

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gatgattgag taataatgtg tcacgcatca ccatgggtgg cagtgtcagt gtgagcaatg 120  
acctgaagga acaaagatat 140

<210> 13337  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-046-Q1-K1-H5  
<400> 13337

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taccaagata ttatccctct ttgcgcttct tgcccttttt gtgagcgcaa caaatgcgtt 120  
cattattccc caatgctcac ttgctcctag tgccattatt ccacagttcc tccctccagt 180  
tacttcaatg ggcttcgaac acccagctgt gcaagcctac aggctacaac aagcgcttgc 240  
ggcgagcgtc ttacaacaac caattgcccc attacaacaa caatccttgg cacatctaac 300  
catacaaacc atcgcaacgc aacagcaaca acaatttcta ccagcactaa gccaaactagc 360  
tgtggtgaac cctgtcgcct acttgc 386

<210> 13338  
<211> 451  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cctgttctta gccctctcct ttgtagcagc tatgtttgcc ataggctctc atgctgatgg 180  
agactgtgag aatgacctcc aaagcctgat aagtgactgc aagacatacg tgatgttccc 240  
agctaattcca aaggctccctc cttcggatgc ttgctgtggt gtcataaga aggcaaacgt 300  
ttcttgcttg tgctccaagg tcaccaaaga aactgagaag gttgtgtgca tggagaaagt 360

tgtgtatgtt gctgagcagt gtaagaggcc atttgagcat ggcttccagt gcggaagcta 420  
caaggttcca gcaaactgat gatatcaca g 451

<210> 13339  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-046-Q1-K1-H9

<400> 13339

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ggaagggact caacgcgact ggggagttct tccggcggag ggacgagtgg aggaggcacc 120  
ctatggcggg gaaccagctg cgccacgcca caccgggct cggcatcgcc atcgctgcct 180  
tcgggatcta cctcgtcggc gaggccgctt acaaccgct ctaccgcccc tccggcgaca 240  
accaccacta gatcgccggc aggatccgtg actcgggtcaa gaagctggag ccaactttac 300  
caagcactgg tgctgttgat gtttttacag ttttgagctc ataaggtcag ccatgaccat 360  
attgtaatct gtgaccaggt agacttgccc actggtccgt ccaactattg tct 413

<210> 13340  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-A2

<400> 13340

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cgggatcgga ggagaggtgc cccgcgaccc tgacgatgac gatgcctcgc cgcgcccttc 120  
tcttcgccgt ggcgctcctc gcggcctacg ccgcgcgggt ctacgggttc cacctcgccg 180  
gggacgagag cggcctcgtg aggggcgtgc tcacagcgggt ccgagagcgg gccgaggccg 240  
aggccgagga cgccgcgcgc ttcgccgtcg cctaccacat caggaaccag cgtgctgctc 300  
cggagttcac tagggtgctc aaatcgaagc ggcaggttgt gaccgggacc ctgcatgacc 360  
tgatactgga cgcagctgat gctggacaaa agagtctgta cagagcaca gtctgggtga 420  
agcc 424



<210> 13341  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-B4  
  
 <400> 13341  
  
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 agggagccct taacgaccgg ggaccggtgc catgtacacg tgcgagactg cctctactag 120  
 aacacaagga ctactgctgg ctataacaaa cgccctagtag agtgggctgca gaccatgcac 180  
 ccggtgatga acgaatgcac ctttctccag aagcagcact gtctgtactg ctacttggga 240  
 taaaaatggc gacattccgt ctataccttg tatgtcgata gtcaagctat gactatgaac 300  
 cttactgaca aagctatgag gtcctaaga gctgatgaac cctatgatga tcttgccctgc 360  
 tcgtgtacac aaatgcgctc acttgctgtg tacgacaaga catcttttgg atactgcgcc 420  
 ttgaatcatg taccagggat t 441

<210> 13342  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-047-Q1-K1-B8  
  
 <400> 13342  
  
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 cctgtatcta actgtgatga gcatcagcga caacctcatt cattcagcca cctagctact 120  
 gactaccaga accaatgcct tgcattaaac caactgactg acatgaactc tgctgctcat 180  
 atacaacagc aacagctacc accattcagc cagctagctg atatgatcca tgtcgccttc 240  
 ttgacacaac aacattatgc tacaatctac ctacacgctg ctccctaactc tcacacccta 300  
 taacaactgc tgcagtatct gccattcaac caacttgcta tgacaaaccc tacaactttc 360  
 taccaacatc cgatcattga cggatcccta attaatatcg tatacaagta atagctcact 420  
 aatgaagatt accggaacat gtaag 445

<210> 13343

<211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D10

<400> 13343

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gcctgcgatg gagtctctgt tcggccaatc gcagcggagg aggagggcgg tcggcagcgg 120
cttcgaatcg ctcaagcgtc tgggtcacat ctcacccgct gtgcagtcct acctcaaaca 180
tgtgtacctc accctatgct ccgcgctggc cttctctgca ctcggcgctg acctccacat 240
cctcctcaac gtccgaggcg ccctcacgac cgtgggatgc gtggcctcca tcgccttcct 300
catctccctg cccgcttcac gggaccagga gaggaaccgc ttggcgctgc tcatgtctgc 360
cgcgctcctt caaggcgcgt ccgttgggtcc gctcgtcgac cttgttattg acttggattc 420
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<210> 13344  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-D7

<400> 13344

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tggctattct tagaactcta ttttgtaaac gggtttgtat tcctaagcga aattaatcta 120
gacgctatct gagaaaacta gacatccttt aaggctgatt cgctggatat ggaattggag 180
ggaatcacag tccatattaa gacaatacac taaaaggct acaccttaca accgataaat 240
ggcggacgta ctagacgatc caagctaact taccctgca tgcaacatcg taggccagtt 300
aatatgccac ctaaagtga tc 322
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<210> 13345  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E1

<400> 13345

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 acgaagacaa gactgactgc agcgcaagtga ggagctgaag ctgagctcta atcctcgcg 180  
 aggaacgtca ccggctgggc acccaaaagc tctcaagata aggtgggtgcg caccttgatc 240  
 gacacgtgat acagagatct cgcagaagca gaagtcggcg ttgcgggagg cgtacaagat 300  
 gaagaacctg ctacccctc gacctgcgcc ctaagaagac ccgtgccatt cgccggcgtc 360  
 tgaccaagca ccagatc 377

<210> 13346

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E11

<400> 13346

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 attggccgtg gttttaaaac gtagttactg aaaaatccct gctactacca aactttgtgg 180  
 cttgggtgtt aattctgctt tcgccagctt tcctattacc tacttggccc catctgactg 240  
 tccttcatat acaattcgca agcctgaatg 270

<210> 13347

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E3

<400> 13347

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 catttggtgg cattttaccc acaagttgtg ggaaacatta atggcttttt gcaacagcaa 180  
 caattggtac cattctaccc acagaatgtg gcaaacaatt gtgccttctt acaacaacaa 240  
 caattgctgc catttagcca acatgctttg acgaatccta ccaccttatt gcaaccgccc 300

accattggtg gtgccatctt ctgattttt tatgatttat actgtaataa taaagttctc 360  
atgctgatat gtgcgacctc tcagtaataa agtattagag atctatattt t 411

<210> 13348  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E7

<400> 13348

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cccgtctgaa cttccaatga tcagctacgt gctggtcagc gacttcgtag gtgtacacct 120  
gccacgagca ccgatgctgg aggcagtgcc tggcgcagtt tatgagggga tctgcttcag 180  
gaacttcagc ttcagagggga taaggcggca tcaggacagc aggtggcatt gcgagtatgc 240  
gtatggagag gcgcatgacg ttgtccctgc accgagtga gagctcacga gagatggatc 300  
ctcctactgg tgtggacttc tttgaccatc tactctatct agtagtaata catactacag 360  
cgcccacaaa ttttgtgagt ggatgatata tgatcttttag attatacaga caaactcaat 420

<210> 13349  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-E9

<400> 13349

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gaataaggca acgtcgagga gtcctaaagc cggactccag ttccccgcct gcaggattgc 180  
taggtccctc aaggcgagca agtactctaa gcgcgtcagc gccggcgccc ccgtgtacct 240  
cgccgccatc ctctagtacc tcgcggctga cgttctcgaa cttgccggaa acgccgagag 300  
ggacaacaag aagaccgcga ttgtgccgag ccacatgcag cttgctgtgc tcaacgacga 360  
ggagctgacc aaactgatga gtaggtgcca ccatcgcgag cagaggcggt atgcctaaca 420  
tccatcagca tctgctgccc aaga 444

<210> 13350  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-F4

<400> 13350

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attacaaata atcataaagc aacaacgaat ttgcgtaatg cttcatcgat cctatctgcy 180
tatatcaata caaaccatta taacagcgat accaaacgtc attaaatacc ttcaactgat 240
ccagctagct attattaaca tctatcaact tcttatacca ttaactcctg acatacaacc 300
gatttgctgt agccctcggt tacattaacg agcaacttct tcaacataca caccttctaa 360
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tttcatctaa t 431
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<210> 13351  
 <211> 86  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G10

<400> 13351

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agtgtacgaa caacggcacc caaaat 86
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<210> 13352  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-047-Q1-K1-G3

<400> 13352

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atgctccctt aagatcattg accacatcgt acgggatggg agtgacggtc tcgatggtag 120
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tccccctcaac catgaagaca ggcttggggc ccaacggctg cctcttgggtg ctgatgacct 180  
cgccgcgctc ctttgtatgc gccttcagct ggtcattgat ctttaagggag gattctaggt 240  
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agac 304

<210> 13353  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-A10

<400> 13353

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gtgttgggct ctcttggttt gagaactggg gaactaagaa actctctgaa ctggggccttc 180  
ctgtcatgaa accatcgaaa cttgtcaagg gactcttaat gatccgttgt tggctctcat 240  
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ctcaagttca agttatcaat acctaaagaa agatcaattt catcaaagcc atgctaacac 360  
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actgat 426

<210> 13354  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A11

<400> 13354

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gtcctgtgac agcgacgccc aacgctgctt gtggattcca agaaagcagc tatggcgtgg 180  
tggaggtgga gctcgtcttg cctgacagcc ccttcgcgcc cccaccaag gaggaggcct 240  
catacgctga tgctgtcact gctgcagccg ctcggaacgg tagcaccagc agcagcagcc 300

ctcgccatgt ggcccttttc gcacccgcgt cttccaccac cctcgagctg cccccctaca 360  
gctcctcctg cttctttcat gtgccaggt tttctcctgg gcatgaagcc attgggctgt 420  
gatgtgaggt gcacagaaca aataatgggg aggg 454

<210> 13355  
<211> 485  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A8

<400> 13355

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tcaccaactg tcgtttcagt atgatgtcct gcgctgttct tgccgtaacc tattgcataa 180  
agcagtatga aatgaatggc agagttgctg attctatgct tgagaatact gcacttatgt 240  
tgatctatat cactaagttc ttttgttggg aatctgcata ttggtgtact atggacattg 300  
ctcatgatag acctggtttc tatatctgct ggagatcctt ggtatgggtc ccatccatat 360  
atacttcctt tgaaatgtac ctggtaaacc cctttttgaa tttggcccc aagttaccac 420  
tttaaactct cttacctgga ttgtgggtcca tctccttaaa ctatgatggt aaccttaaac 480  
cccaa 485

<210> 13356  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-A9

<400> 13356

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gagccaagat ttttgccctc cttgccctcc ttgctctttc agcaagcgct gctacctcga 120  
cttttattcc acaatgctca caacaatacc tctctccggt gacagccgcg ggatttcaat 180  
acccaactat acaatcctac atggtacaag aggccatcca agcaagcatc ttacgggtcat 240  
tagcattaac cctccaacaa ccatatgctc tattgcaaca gccatcctta gtgcatctgt 300

atctccaaag aatcgcgga caacaactac aacaacagtt gctaccaaca atcaatcaag 360  
tagttgcagc gaaccttgct gctaactcc agcaccacca gt 402

<210> 13357  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-048-Q1-K1-B3

<400> 13357

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agcggcaccg gagagctagc cgcggcctcc aggctcgagg ggatctgaac tagtgccgct 120  
gccaatcgc gccgacgact gagggcgcca ctctcatat cccatttcca tcaactcgttt 180  
ctccatttcc caccttctta aacgccactt aaaagagaaa ggagagcatc gcagtggcac 240  
acgcgcaatg gaaggctcgc cggtgacgag cctnccggag gctaactccc tccccgacgg 300  
cttcgttctt gactctgaga gccctggcac ggacgcgagc tttcccttct ccgcgccccat 360  
cgttgatgat gcgctcaact ccgatatccc cggcgcgacc aaccangcn gcgaggaaac 420  
cctaaacgat ccnccctcc ctgcgt 446

<210> 13358  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-B8

<400> 13358

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catcatataa agtggaatcc agtagcaaca acagagcaag aatggcgacc aagatatgtt 120  
ccctccttat gtccttgct ctttctgcat gtgttgctaa cgcgacaatt ttctctcaat 180  
gctcacaagc tcctatagct tcccttcttc cccatacct tccatcaatg atagcttcag 240  
tatgtgaaaa ccagctctt cagccctata ggctccaaca agcaatcgca gcaagcaaca 300  
tacctttatc acccttggtg tttcaacaat cgcagccct atctttggtg cagtcattgg 360



tacaaacccat caaggcacaa gaacttgcac aactcgtgct accttgtatc aaccaataa 420  
ctttggcaaa cctttcttcc taatcttaac aaccaccatt tctttca 467

<210> 13359  
<211> 190  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C11

<400> 13359

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaagagt 60  
aaaaataaaa acaagggctcg gccgttcatt aggttccaag cttacttccc cttacttgcc 120  
acgtcttaac ttttctatac cttcacctac attaaattaa ctgtcactta gttcttacia 180  
cgatcacatt 190

<210> 13360  
<211> 267  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C5

<400> 13360

attcccgggt cgagccacgc gtccagcatg tgtaatgtat aactgtaaatt attggcttga 60  
tttgaacaaa cttgtttttt ttgcgaaaga aaaaaaaaaa aaaatagaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacia aaaaaaaatt 180  
aaaaaaaaa aaaaaaaaaa aaaaagtcaa ccattaaaaa tattcaaaat ttacatacca 240  
ataaattcaa cgtaaaaatt ttttaaa 267

<210> 13361  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C7

<400> 13361

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tctatcttcg gttcgactac gggttcgtga ggttgcgggc gggttcacac tcgtggatga 120  
ccggatctac atgtcacctt ctgatgttga ttaccgctga ttattctact gcctcatctg 180  
agccacggac taccactccc tacacaacgc cttcatcacc tacagagatg tcctcgagtc 240  
caaaatcatt cctgatcggg agacgcatag gtacctctgc ttcggctctc acaacttttc 300  
cacagaagaa gccatgcgta accccatcg 329

<210> 13362  
<211> 60  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-C9

<400> 13362

aaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60

<210> 13363  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-D8

<400> 13363

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atggagaagt cctaggctac cgagccacgg cggcgcgccg gcctgacact tacaggtggg 120  
cccgaacgg ttgccccac ccgtgccaca cactggggga agttcaccg gggacggagc 180  
acgccatgcc acgcagcagc acagctacgc tgctgtcagc ctctcctcc ggcagcccgt 240  
tagatctgca gctcgggcgg agccttcacg ggggcta 277

<210> 13364  
<211> 209  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E1

<400> 13364

cacgcgtgcg taccagtga agtctattac tgatgattgg ttttcttctt tatcaaagt 60

gttcatgatg attgagttgc tgaacttgaa atactgcaac aagatcactt atactgattt 120  
 gggtcaccta tactccctgt atgatctcac aaaccttta ctgacatgct tgttcctctt 180  
 aacaagcatt gagatctcct caatttcaa 209

<210> 13365  
 <211> 187  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E3

<400> 13365

cttagcagga agcgctgggc acctcagttt tgtgtagaca aaatctaggc atcgataaat 60  
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 gtttttgggtg tgtgtgtgta agctaataaa tgctcaggca ggattgtagg aacaccattg 180  
 atcaaaa 187

<210> 13366  
 <211> 197  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-E4

<400> 13366

taccggtgca actctattac tgatgatggg ttggcagctt tagcaaattg gtgcaagagg 60  
 attgagtac tgaacttgtg ttactgcaac aagatcactg atactggttt tgggtcacct 120  
 aagctccctt gaagaaccta caaaccttta acttaagtgc ttgggtccccg taacaagcat 180  
 tgggaatctc ttaattg 197

<210> 13367  
 <211> 473  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F2

<400> 13367

cctctccgga attccgggtc gacgcaggcg tccgcccacg cgtccgcccc cgcgctccgcc 60

cacgcgtccg aggggtttccg cgtcggctag tttggacgca tggctgctgc aggagagtag 120  
agaccacagc gcgcgaggcg aggagaataa gctatgggcg cgccgaagca gaaatggacg 180  
tcggaagagg aggatgcgct ccgcgccggc gtgcgcaagc acggcgccgg caaatggcgg 240  
accatccaga aggaccccg gttcagcccg gtctctact accgctccaa catcgacctc 300  
aaggacaaat ggaagaattt aagtttcagt gcaagtggac tgggaatcaa ataactgtcg 360  
gttccaaaga taactggacc cttatcttcc ccatcattta actcgcaacc tttggttttt 420  
ccaacgggaa acaaatttac tggagcttca ctggctgcat atgctgagaa aaa 473

<210> 13368  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F5

<400> 13368

agctgtatcc ccgagattcc ttaaccagcg cgaaccaata tactgttgcg tgttctcctg 60  
caagtgagat gttctgcacc tatgtttgta atgttgatt tctgggtttt taagctatcc 120  
aacttggaga tacaaccggt gaggaagcag caacaatagg tagttctact tctgagttag 180  
gaaaaacaac ttgcggctga gttaatgaag cttagtagct accaccgttg tatgacagtt 240  
gctcagaaat gttatcttca ttaatggcta atataaccgt tagttccttg tga 293

<210> 13369  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F6

<400> 13369

ctgaattccc gggtcgagcc acgcgtccgg cagagttttg aagctttgaa ccccatagcc 60  
gttgctgttg tgatagacct catccagagt ggggaatggga aggtgggttat tgatgcattc 120  
cgcctcatta atcctcagac catgatgctt ggccaggagc cacgtcagac aacatcaaata 180  
gttgggcacc taaataagcc atctattcag gctcttatcc atgggctgaa tagacactac 240  
tactcaattg caatcaatta ccggaaaaat gaacttgagg agaaaatgct gttgaacttg 300

cacaaaaaga aatggaccga ttggctaatt ttgaaaaagg ttgaccctca ctcgaaaacc 360  
aacgagcaaa ctgtccatga aatg 384

<210> 13370  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F7

<400> 13370

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tcttatcctt ggaacaggaa ctactgatgc tgttggttaag atttgggacg tgaaggctca 120  
gtcaaagtgc gcaaagtttg agggatcatgt cggaccagtc actgctatgt ctttctctga 180  
aaatgggttac ttcctagcga ctgctgctca tgatgggtgtt aagctttggg atcttcgtaa 240  
attaagaaat tttaggactt tctctcccta tgatttggac acgccaacca atactgtgaa 300  
atcttgattt agtggaaact atcttgccat tgggtggttca gatataaggg tctaccaagt 360  
acctaattgtt aagg 374

<210> 13371  
<211> 464  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-F8

<400> 13371

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ttttattaac cacacctctg gcaaggagta caagctgagg ccaattggtg atgctggccc 120  
tgtaattgag gcgggagga tctttgccta cggccggaag acaggaatga ttgcgtcgaa 180  
agctgctgca tgagggaag atcagcttat gcagccgagc ctctgcggag atgaagaagt 240  
aagctggagt taggactaag agttactgca cctacttgat gtcgacggtg tctcaaaata 300  
aattgggggc ctaacaaatt attatgaatc aattaatttg ggctttggca aaaaatcggt 360  
ttttttggta actagacctg gaccaatgga cctctggctt gttacggtcc taaccggttg 420  
aattacctgt ctggtggcca aaaaaaaaaa taattttaat agat 464

<210> 13372  
 <211> 248  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G1  
  
 <400> 13372  
  
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 gcagcacaat acctaccatc aatgtgcggc tggtagcact catactacca aaataatcca 120  
 tgcagcagca atgacattag tgggtgttgc aattgaagaa ttgtgtctac ctagccgtta 180  
 tactcctata acggtgttaa gcaataaagt accatacatt aaaaaaaaaa aaaacaataa 240  
 taataatt 248

<210> 13373  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G4  
  
 <400> 13373  
  
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 aacatcaatg gcttccaaga cattatccct ccttgcgctt ggtgcccttt ttgtgagtgc 120  
 aacaaatgcg ttcattattc cacaatgctc acttgctccg agtgccatta ttccacagtt 180  
 cctccctcca gttacttcaa tgggcttcga acaccagct atacaagcct atagtctaca 240  
 acatgcgctt gaagctagcg tcttagaaca acctattgcc caattacaac aacaatcctt 300  
 ggcacatcta accttacaac ccatcgaacc gcaccaacac caaccactaa cccactaacc 360  
 cttgttgaac ctaatggctt actgccacca ccacttggtt gattccaacc aatttccttt 420  
 gccaacctaa cttgcaacca accaccacca c 451

<210> 13374  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-048-Q1-K1-G7

<400> 13374

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cagcaacaac aattcctacc agcactgagc cacctagcca gggcgaaccc tgccgcctac 120  
ttgcaacagc agttgcttgc atcaaaccga cttgctctgg caaacgtagt tgcaaaccag 180  
ccacaacaac agctgcaaca gtttctgcca gcgctcagtc aactagccat ggtgaaccct 240  
gccgcctacc tacaacagca acaactgctt tcatctagcc cgctcgctgt ggccaatgca 300  
cctacatacc tgcaacaaca attgttgcaa cagattgtac cagctctgac 350

<210> 13375

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H1

<400> 13375

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atttccgtgc tcttggaag ctgaggagg aagccgagcg cgccaagaga gccctcagca 120  
accagcacca ggtccgtggt gagatcgagt ccctctttga cgggaccgat ttctcggagc 180  
cgctgacccg tgccaggttt gaggagctga acaacgacct cttccgcaag accatgggcc 240  
ctgtcaagaa ggccatggag gatgctggcc ttgagaagag ccagatccac gagatcgctc 300  
tggttggtgg aagcaccagg attccaagg tccagcagct cctgcgggac tacttc 356

<210> 13376

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-048-Q1-K1-H11

<400> 13376

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ggacagtaaa attccatctc tcagatctct caatgagata aggtctcctg aaggaaggcc 120  
tccctcttcc atgttatcag cctgcagcaa cgacttgtca gcagcaggat cctatggtga 180  
gtcatccgat ggttggtcaa tgcgcacatt ttctgaaatg gtctcaacat cccaaagaga 240

gagggtggtca cttgacagtg agctcttggg atccatttct agtaaaatga caagatcaag 300  
 tgcttcgagt tctactacac gccccctga ccaagacgtg tgcaagctgt gtttaaagct 360  
 gctaaaggag agatcgacat ggaacgcgca ggagctggct gttgttgctg ttttgttgctg 420  
 tggacat 427

<210> 13377  
 <211> 212  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3059-048-Q1-K1-H2

<400> 13377

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 atagaaatcc ancacactat gaaggcacgt tcattatata actttacgat gaacatgacc 120  
 aactactact gcatcaacac atctaccatc ttctacatat ctctcctatt catcacctac 180  
 actgcctatt tcaacacctt tccagtgaac tt 212

<210> 13378  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-A5

<400> 13378

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 taccaggcga ccttaggctg ggcggtgcaa tccatcctgc agcagcagcc gcaaagcgct 120  
 cagatcgccg tgctgatcgc ggcgcatatc gggcagcagc tgactgcgat gtacgacctg 180  
 cagcagctga ctttatgccc ctaccctgct gccggccata tactccactg tagaaactat 240  
 ttgctgtact ataacgcctg gctagcttgc tagtttaatc atttagcggc gatgatcgag 300  
 gaataatgta gcatgcatca cgcgtgggtg gcagtgtcag ctgaagcaaa gtccttaatg 360  
 aacaat 366

<210> 13379  
 <211> 379



<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-B1  
 <400> 13379

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 acaaagcaac agacatcgat gatgtagaca agaccatgga tgaaattaat gaacagactg 120  
 aaaatatgaa acaaattcag gatgctttgt caggctctct cggagcttct gctgatttct 180  
 atgaggatga actggaagcc gaacttgaag aactggaggg agcagagttg gaatctcagc 240  
 ttctggagcc tgttgcagct tctacggtgc atccagtgc tgccccagcc aacaagcaac 300  
 cagcgcgcac tgctccacag aaagctacag ctgaagatga tgagcttgct gcactgcang 360  
 ctgaaatggc attgtgatc 379

<210> 13380  
 <211> 471  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-B9  
 <400> 13380

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 gctatgagga aggcgagcag ttcgcaaagg aacatggtct tatcttcatg gaggcctctg 180  
 caaagaccgc gcagaatgtc gaggaggcat ttgttaagac tgctggagca atctacaaga 240  
 aaatccaaga tggcgttttc gatgtatcta atgagtctta tgggatcaaa gttggatatg 300  
 tagtccctgg ccaatctgga ggtgctggta gctcttctca aggtggtggc tgctgcagct 360  
 aatctgctaa cgcccttatg tacaaaggca tatctgcggt gtagctgcgt tatctctatg 420  
 ttgctgagcg taaaatagtt actgctccag ggtgctttgn tatttgatgc a 471

<210> 13381  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C1

<400> 13381

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ctggatctgc tgctatgaaa gcaatgcaca aagcaacaga catcgatgat gtagacaaga 120  
ccatggatga aattaatgaa cagactgaaa atatgaaaca aattcaggat gctgtgtcag 180  
gtcatctcgg agcttctgat gatttctatt acgatgaact ggaagccgaa cttgctagaa 240  
ctgcagggag cagagctgga atctcagcta ctggagcctg atgcaacttc tacggtacat 300  
ccagtgcattg ctgcagtcta caagcaacca tgcgcgcact gcttcacaga aagctacaga 360  
tgtagatgat cagcttgctg cactgcaagc tgaaatggca tagtgatc 408

<210> 13382

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-C10

<400> 13382

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tacaatattc cctcaccctg cacggagctg tggcaacgtg taccgcggct ggcgacggc 120  
ctgacgacga tgataggcgc cggcgggctg gaccctacg cggagtacct gaagcaaadc 180  
gcatggcacc ccgttggccg ctgagcgcta ctacgacctg agtggccaga cgagcgccat 240  
gtaccagccg gtccggcaac agtgctgcca tcaccagatg aagatgatgg acgtgcaatc 300  
cgtattgcat caactgcaga tgatgatgca gctcgagcgt gccgctgcct tcagaaacat 360  
gctgaaccag ccagctctaa tgcagcagcc ccagcagctg gcggcagatc acggtctcaa 420  
ccgcatggcc atgatgatgg cccat 445

<210> 13383

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-C11

<400> 13383

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tgtggctggc caatacttgg attaaccggt taaactagag caggctgaag gccacctggc 120

acacagtcaa tttggtggta tgattatgcc atcgcaacga aagaaagagc aagaagagtc 180

tccactggct aatgtaacac gagatagctc caaaatcaca gctgaacagg ttcacggcct 240

catgtcacag gtcatagaag acatcctttt caactctgtt caccctcaa gcaaggcaag 300

cacaagtgct ccaccagatt catccggtcc tgagcctatg gttgaagcct gagttccagc 360

ggaaggggac aatggatatt tgtgttatgt tatctgattc agaaggtgca aaacaagtta 420

tcttttgagt acagaatcat catgtaatta tga 453

<210> 13384

<211> 157

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-049-Q1-K1-C9

<400> 13384

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gcaaattgcc tggccctgcc ccgggctgga aggcttgtac cgggcttgcc cccggcttaa 120

aacaataatg gccccgccg gcttgaacct taacctg 157

<210> 13385

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-D12

<400> 13385

ggaattcccc ggtcgaccca cccgtccgcc aacctgggccc cgataggagt tccgtattaa 60

tggtggaggc agccaaaagc agcctgggaa tgttaagtct aattaaccat ggcaccactc 120

tctgttattc cattagccaa attgggagcg agaagtccaa tcagttggag atggacagtg 180

tgatcccttt acctgagggt tatatttact ttgcattca cggttcatat gaaggacaca 240

ttctcatatt tggatagca tttagtgaag acgcatgctt cgacttgag atcaagacta 300

tgaagattga gagagtctgt cggaagtggc gtggtttctg tccttatttt gtgttcctgc 360  
catccatgtc acaaaggagg atataatgtg gactgaattc acatccaggt ttggggcttc 420  
ttccaatcca ttctgctggg gtggagtga gctaggtga 459

<210> 13386  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E1

<400> 13386

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aacagcccta tatatcggtta tgtactgact acttctctat taatgtatat atctgcacac 180  
tgtactaaac gagccgtgcc gctgccattg ccgcaaacga tgtacagaca ttagctgcta 240  
acttgccaag ctatgattac gaacatgaga tatccaacat acgtcgataa caggatgacg 300  
tgcacacat actcacataa tcctcaggta gacgactttg tgttatcgaa gcgatccagc 360  
tggttctaaa 370

<210> 13387  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-E6

<400> 13387

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aaaaatttaa aaaaacggga aaaaattttt aaaaaaaaca agaaaaaaa aacatttttt 120  
tgaaaaagg gggaaattta agtgctttta aaaatggccc cgaaaaatga aaaaaatgga 180  
cctaaaaacc tttttgcaaa aaacaaaaa ttttttagga aaattttcaa aaggggcaaa 240  
atgttaaatt gaaaaggga taa 263

<210> 13388  
<211> 252

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-E9  
  
 <400> 13388  
  
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 ggttgatttc agtttaggat ttgaatgatg ctgggttaaa caatgacttg gctggcatta 120  
 ggtattaact aatgctaatt aacctgccaa aaaaaaaaaa ttcaagaaat taaacggctt 180  
 tacataaaat taccacaaac aaaaggacaa agaaaaaaaa aggggcggcc gtttttagagg 240  
 atccaagttt ac 252

<210> 13389  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-049-Q1-K1-F6  
  
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 gctcctatag ctcccttct tccccgtac ctctcaccag cgggtgtcttc ggtatgtgaa 180  
 aaccaattc ttcaacccta taggatccaa caggcaatcg cagctggcat cttaccttta 240  
 tcacccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
 ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360  
 tactctcagc aacagcagtt tcttccattc aaccaactag ctgcatngaa ctctgctgct 420  
 tatttgcaac aac 433

<210> 13390  
 <211> 93  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-049-Q1-K1-F9  
  
 <400> 13390

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gtttttttgc caaaattcca aagggccctt ttt 93

<210> 13391  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-G12

<400> 13391

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atgctccttg gtctttctgc aagtgtgct acggcgacca ttttcccaca atgctcacia 120  
gtcctatag cttcccttct tccccgtac ctctcaccia cgggtgtcttc ggtatgtgaa 180  
aacccaattc ttcaacccta caggatccaa caggcaatcg cagctggcat cttaccttta 240  
tcacccttgt tcctccaaca atcatcagcc ctattacagc agttaccttt ggtgcattta 300  
ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa ccttgctgcc 360  
tactctcagc aacagcagtt tcttccattc aaccaactag ctgcattgaa ctctgcttct 420  
tatttgcaac aac 433

<210> 13392  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-049-Q1-K1-G3

<400> 13392

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gcaactgtca gtcagtgatg ttgtaactgg tcctctacag acattcaatg gcatagagaa 120  
ggtcggccat atagttcatg tcttaaagac aactggccac aacggtttcc ctgtggttga 180  
tgagccacca ttttcagata cccctacatt gtatggctta attcttcgag accacctgct 240  
tgttctattg aggaagaagg atttcatccg tagttgcaca gcgtctacac tgaatgcttt 300  
aaaccatttc tcacatgctg agtttgctaa acgtggatca ggaaaacatg acaggattga 360  
ggacattgaa ttatgtccag aagaactgga aatgtttgta gacttgcac cattcacaaa 420

cacatctnca tatac

435

<210> 13393

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-049-Q1-K1-H4

<400> 13393

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gaacattgat ggggaatcat tatcgaggaa tgaattagat tttcaaagga gaatggattc 120  
agcaagggaa cacatgttgg ggttatcagc tgactcagaa taccaggata atcaagccaa 180  
tcctgatgtc caagatcgta gatcacaaaag tcttggagct aacagaaatt ctgatgtcag 240  
cttatctttg aaagaccacg tccaaggttc agggcacgat atgagaaggg acagtgatgt 300  
gactgtgagt ggtaaacaag ttgagcaagt gcaatctatt tctgatttag agaagaaagg 360  
aactgcgga ctcctcaatg aagatgactt gaacaaaaaa ttccaggagt acccgtttct 420  
gtttgcccgt gctggtgatc tgacta 446

<210> 13394

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A4

<400> 13394

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cgatccgcac tatctccagc ctatcgcgga tggctaccaa gatctcatcg ctccgtacac 120  
taactgacct tctaaccagc tcagctcatg cgatcatgat tccacagacc tcaattactc 180  
ctaaagccag gattgcacag atcctgacac cacttacaga aatgggctct taacatgcag 240  
acttgctagc actcctccta ctactagcac ttgcgatgct cgccctacaa ctaccattg 300  
tcaaacacag tcatctatgc ttgacacact gaccatacca ccaatgcaac acaacatcaa 360  
ccacagccac tgcattcaag actgatccac ctacacgca 399

<210> 13395  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-A7

<400> 13395

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 tcaggctact ttgtctagca tgtttataag ggcagaagaa aaaaagagat ctacaaggag 180  
 tcctaaaggg tccctgcaa ccaaaggtgc tgctgctaag aagcagcgag caagtccaat 240  
 ggcaaaacag ccagcagga tcaagaaggt tagcggaact cggggaaaga aaaaaccaa 300  
 ggtgggagaa gatgaaatcg aagagctctc aagttcctcc caggataacg acgcagatga 360  
 tgatagtgc gaggactggg ccgaataatg cgttggtaca tacggcagat aggttgggga 420  
 agcatatg 428

<210> 13396  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-B11

<400> 13396

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 ccctgtctgt ggtagagaca ttcttgggga tcttaagctc aaagagtgtg ttaaagccca 120  
 cactaactgg cctacatttc cacaatatatt tatcaaagga gagtttgttg gggggtctga 180  
 catcatatta agcttgcacc agaaggggtga gcttaaggat cttcttgggg atattgcaca 240  
 aagagacgaa caaaaagtgc atgctcacga ttcataagc aatcaacagt aggttctttt 300  
 actatgcgct atctactctg ccactaaaat gttctatctc ggagtcttta ggcgacagcg 360  
 tacgtgacat tgtgaactgt ccctacgcat tggacatgga tgaccgatg tg 412

<210> 13397  
 <211> 346  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3059-052-Q1-K1-C2

<400> 13397

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aaaaaaaaaa aaaaaaaaaaag gaaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaatcaaca 180  
taaaaaaaaaaaa aaaactaaaaa caaaaaaaaaa aaaaaaaacaa caaaaaaatcg actcaaaaat 240  
aataaaaaaaaa aattttaacct tccaaaaaaaaa aaaataaaac taaaaactgc tataactaaa 300  
atgacttaac caacatatat caatcacata aatactgtac aacttt 346

<210> 13398

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C8

<400> 13398

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ttgagctcgt cagcatagtt caccatgatg ataaaaaaaa gagaaagaag tttggagtag 120  
ttttacatgt ggaaacaaaa ctgcttgtaa gaagagagaa tgtgcagccc cagagtgtga 180  
gcaattttac atgcttgagt gtacaggggt ttggagtagt cttggacttg cttattttga 240  
ggcatgtatt gcagtcatag gttacttctg ctcaaaaaaaaa aatacaaaac atgaaagaaa 300  
aaaaaaatat aaacaaacat g 321

<210> 13399

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-C9

<400> 13399

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ccttgatata tggtgacctt tatggtatct gcaaagaagc atccaccata tatagggcta 120  
ctcttcgtta cgaagggtttt agtgagatta tggtaacctt ttccaaaact gggttctttg 180

atgctgcaaa tcattccactg ctgcaagata ctagtcgtcc aacataaag ggtttccttg 240  
atgaactact gaataatatt tccacaatta acacggactt agatattgaa gcctctgggtg 300  
gatacgatga tgacctgatt gccagactgt tgaagctcgg gtgttgcaaa aataaggaaa 360  
tagctgttaa gacagtcaaa accatcaagt tcttgggact acatgaagag actcaaatac 420  
ctaagggttg ttcgagccca tttgatgtg 449

<210> 13400  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D2

<400> 13400  
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ccgcacgatc ttggttcaga tcaaagggtg gggcatataa gatcctgttg tcatgaaatc 120  
caagatccat ggaacgctgc tcttcacccc atgtcactat gccagcgctc aaccgtacat 180  
acacgaggcc aggctatcac aagggtgtcc gtaatctcag cactttggca tgtgattgta 240  
cacttgatca cagaggtgat gcgcgatga 269

<210> 13401  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-D3

<400> 13401  
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tcgtgtacgt tgaccgcccc gaggacgccc accctgagga gttccacatc cgcaccctca 180  
ccccgtcct cggcagcgaa cagaaggcca gggacgcagt gctctaccac tacaagaacg 240  
ccgtcagcgg cttctccgcg aagctcacc cccagcaggt caaggatctc aaggagcaac 300  
caggtgttct ccaggttgtg ccgagccaga cttaccagct acatggctct gggctctggca 360  
ctcaccaggg cagcacacac accttgggcc ttatgtgaag gcgtatgaga atca 414

<210> 13402  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E3

<400> 13402

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ttttgaaggg acctgtggat ggccgtgagg cttcagccag atgcaaattc aattatcaac 120  
gatgaagctc ccgccgtggt gtttgttaat aagttcctgt aagcatatca tttagtcgct 180  
atgcatgaca ctagctgaag cgctatctaa gctctattgg tatgaggttt ggttgccgtg 240  
ttgccgagcc tgtaaacgaa gcaagatttg caaacttggt atattgtggt attgatgata 300  
ctggattact ggctgtgggt tgttcaaaaa acaaccatac tcatttggtg tacctgatcc 360  
ctactttttt gggagaaagg ttcaacgttt tgggtgcatga taaaat 406

<210> 13403  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-E8

<400> 13403

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gactcctttt tgatcttctt gtgatggtag ccatgatggg gcctattgat gagagccctg 120  
ccttcctatt gtatcaggat tgtgctctgt gcttaatat cttgaaaata tcgactagac 180  
tgtttatgct ggatcagatg gcacctttgg ttgatgaaag ctggagggtca aagtttgaga 240  
gagttagaga cgatgacttc tcccgtttaa agggctctgt ggtcctccat gaaattataa 300  
tgccgatcgt gaccaagctg cttactgctc tctgtgtccc atacgtcctt gcaaggagca 360  
tcttcccggt actgggttac ccactcatcg tgaactcatc ggtgtaccgt tttgcct 417

<210> 13404  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G12

<400> 13404

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tcgtacgtgt gttcgtgtcc gtccgtgctc gtgctgtgta ctctgtgtgtg tgtgtgtgtg 180  
tgtgaaacgc cagcgcgtgc tgcttctgct gcgtcgttat tacctgcgtg tcaaataaat 240  
tctttttttt gtccc 255

<210> 13405

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G2

<400> 13405

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ggcattcata tatgacttgg gatagatgga ccaaccattc aatcaagcaa ccaagtgcct 120  
tcatggcaac tgggaatggg tgatatgtca ggtagtttt ggctaactta accacggtgt 180  
gggttaacaa caccaacatg ctagaggagg aagcgggatac agaaacattt tctgaggggc 240  
ttcttttctt tgagtcatgt ttttagtttt gattcctgcg cgtggctagc tccttttggg 300  
ttttgaatga gatgtgtagt ggtgattatt ggggcgcata ttttagagat cgtgggttctt 360  
ccaacataag ctggaaaaag aagtctgtat acggatgaac atgtatacca a 411

<210> 13406

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-G8

<400> 13406

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gaagcaatgg cgggccgtgg caaggcgatt ggcgctggtg ccgctaagaa ggcaacgtct 180

aggagctcca aggctgggct gcagtttccc gtcggcagga tcgctcgggt cctcaaggcc 240  
 ggcaagtacg ccgagcgcgt gggctccggc gcccctgtct acctcgcagc tgtcctctag 300  
 tacctcgccg ctgaggctct ggagcttgct gggaacgcat cgagggataa caagaagacc 360  
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 cttggtggtg ccaccatcg gag 443

<210> 13407  
 <211> 224  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-052-Q1-K1-H12

<400> 13407  
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 tcggtggtgc catcttctag atttattatt acagtataaa tcataaagtt ctcatgctga 180  
 tatgtgtgac ctctcagtaa taaagtatta gagatctata tttt 224

<210> 13408  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 cgtggattcc aaagaagatg gtcattggatt ggaaccttgc tgaaaatgtt caagaataac 180  
 cgcctttcca gaagattctt gaacataaac taacaataat tgggtataaa ccgcttctaa 240  
 cacggtgcta atctaaccg tttcacatgg aatcggaag tctcgctggc tcaccacagt 300  
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 gtttcagctc a 371

<210> 13409  
 <211> 98  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-052-Q1-K1-H4  
  
 <400> 13409  
  
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 aatggtagcg gtcaaataga gtcacctaga ttcaattg 98

<210> 13410  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-B3  
  
 <400> 13410  
  
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 tatgtacata accgatgcct cagtgtacat aactgggagc agagccgaca aacgccgcta 180  
  
 gatatgttac gcccccaacg attattgcgg aatatctcac aaggattatt gcagaacatc 240  
  
 tcacatggct cacagggcaa acctggtagg tcttgggctc ttggcaatcc atggcaacgc 300  
  
 tgaaactgca caaacgatga ggaacaggtg gtctagtcct tgtagacaag aggcttgttg 360  
  
 acccat 366

<210> 13411  
 <211> 167  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-C2  
  
 <400> 13411  
  
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 tctgaagaaa taccacaaca tggatgccat caatgtaagc tactcat 167

<210> 13412  
 <211> 527  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-053-Q1-K1-D10  
  
 <400> 13412  
  
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 gagattgagc tggactttgt tattgcagca cagtacanaa tgcttgacgt aggttggttat 360  
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 ggtgagacca aggttaaactc ttgtactctg cattggggaca aagagcaagc ttcagaaatg 480  
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<210> 13413  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E6  
  
 <400> 13413  
  
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 acaataccaa gtggacaagt gaaggaagca gctgaagtct gatcctgtgg attcagtcgg 240  
 atcgtggcca tggcttaatt tccaccggac atgctgggct tccaccggac atgatgcaga 300  
 ccaatcgtat ttatgttgag ttgtaatcga acgctgcgta gcgcagtatc ccgaagaaca 360  
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<210> 13414  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-E8  
  
 <400> 13414  
  
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 aagtgttgct accgcaacca ttttcccaca atgctcacia gctcctatag ctccccttct 180  
 tccccatac ctctcaccag cgggtgtcttc agtgtgtgaa aaccaattg ttcaacccta 240  
 caggatccaa caggcaatcg caacaggcat cttaccatta tcacccttgt tcctccaaca 300  
 accgtcagcc ctattacaag agttaccttt ggtccatttg gtggcacata acatcagggc 360  
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<210> 13415  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-053-Q1-K1-F2  
  
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 aagaggttct tgctactac tgtattaacc actcggatgt gttcagggtcc aagaaagtgc 180  
 ttgaacttgg atctggttat ggattggctg gacttggtat tgcagccagt acaaagtctg 240  
 acgaggttgt tatttctgat ggcaaccac aagtagctga gtgtatcctt cttaataataa 300  
 tagacttttg gtgagaccaa ggttaaactt ttgatactgc atttggacia aagagcaagc 360  
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<210> 13416  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations



<223> Clone ID: LIB3059-053-Q1-K1-F4

<400> 13416

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cgtctcttgc cgtggggctg ctctcggggc ttgcgcagag gacgggaccg acgcctggaa 120  
ccaccggatc ggcggcatct ctctcagtct cgtcgccgat ttccctcggg ttcaacccca 180  
ctccttctct cccgttcttg cagacagcga ggtgggtccc gtgcagcgac cttgccacct 240  
cgtcgtcttc ggcaccctct tcccctcccc gctcgttggc gccttcgggt cccccaaga 300  
aggcgttgat tgggtgcttct gctggttcta ccggaattgc gacgagcagt ggtgctggtg 360  
cagcgatgag caggagcaac tggctgtcga ggtgggtcag ctctgctcc gatgaccca 420  
agacggcggt 430

<210> 13417

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-053-Q1-K1-H4

<400> 13417

aattccccggg tcgaccacg cgttcgcacc accaatgatg ggttggtggt agaactgt 60  
tgagtttttt ggatgatgtt ggtggcgtcc cagaaataag aaagtacatt tctagattct 120  
t 121

<210> 13418

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-A7

<400> 13418

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aatcctgta aacgtcagca agggatggat gttcttaaac atccgaattg tcagccttta 120  
taagtcataa tatgtaagca gaactttttc gtactctatc gttttgaaat aataaatttc 180  
attaatgact attaaataat tataaaatta ttttaattatt aattattata attaatttaa 240

tatatatttaa attatataat atatatttata ttttatattt tttcttattt tttttatggg 300  
 ttttttattt tttttttttt ttttttttat ttattattat aatttttttt ttatttttta 360  
 tttttttatt ttttttatta tttctttttt tatattttta atatatttta tatctttttt 420  
 tttatatata t 431

<210> 13419  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-054-Q1-K1-A8  
 <400> 13419

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 ttactcgtgc tgcttgccct cgccgcacgt tctccacgc gcagcgcaca aaaggagtcc 120  
 gtggctgaca acgccgggat gttggcaggc ggcatacagg acgtgccggc gaacgagaac 180  
 gacctccagc tccaggagct cgcgcgcttc gccgtcaatg agcacaacca aaaggccaat 240  
 gctcttctgg ggttcgagaa gcttgtgaag gccaagacac aagttgttgc tggcacgatg 300  
 tactatctca ctattgaagt gaaggatggc gtagtcaaga agctttatg 349

<210> 13420  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-B1  
 <400> 13420

cccacgcagt ccgcgcactc gtccgaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa 60  
 aaaaaaaaaa agaaaagata aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180  
 aaaaaaaaaa aaaaataaaa aaaaaaaaaa aattaaaaaa aaattaaaat aaaatcaaaa 240  
 taaacatatt taaaaaaaaa tatataaatt ataaaat 277

<210> 13421  
 <211> 221

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-B12  
 <400> 13421  
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 gcgatgattg agtaataatg tgtcacgcat caccatgggt ggcagtgtca gtgtgagcaa 120  
 tgacctgaat gaacaattga aatgaaaaga aaatagtatt gttccaaatt aaatattttt 180  
 ttatatttaa aaagggcgtc cgatctagag tgatccaagc t 221

<210> 13422  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-054-Q1-K1-B6  
 <400> 13422  
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 aactaactaa aggagaatac ttaataatag ggcggaacat ttatacaaaa cacctatccc 120  
 gagcacacgc aagggaaccg tagacaggca agtgaaatcc aatccacgaa ataaattgat 180  
 ccatggacgg caccgttggt gtaaagggtcg taatgccaga ggaatcatta ccgcaaggca 240  
 tagaggggga ggtcataagc gcctataccg taaaatcgat tttcgacgga atcaaaaaga 300  
 catatctggt agaatcataa ccatagaata cgaccctaat cgaaatgcat acatttgtct 360  
 catacactat ggggatggtg agaagagata tatttt 396

<210> 13423  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-054-Q1-K1-C8  
 <400> 13423  
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 taaatcacia tagtgtacca acaatggcan ccgaaatatt ttgcctcctt atgctccttg 120

gtattttctgc aagtgtgtgt acggcgacca ttttcccgca atgttcacaa gctcctatag 180  
 ctcccttctt tccccgtac ctctcaccag cggtgtcttc ggtatgtgaa aaccaattc 240  
 ttcaacccta caggatccaa caggcaatct catctggcat cttaccttta tcacccttgt 300  
 tccttcaaca tatcatcaac cctattac 328

<210> 13424

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D10

<400> 13424

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 aaaaaaaaaa aaaaaaaag aaatttttaa attctaaaga taacaaacac atacatacaa 120  
 aaaaaaaaca aaaaatataa aataaccaa ataaaatata tataaacaac tttaaacaac 180  
 attttttact tttaaaaccc ttccaatact atatctaaat tatctttatt atcacatcct 240  
 cttttctcat ttttccttaa 260

<210> 13425

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-D2

<400> 13425

cggtattccc gctcgagcca cgcgtccggc tcggcgtctt cctctccga cgactgctac 60  
 acctcacaac cgtgagctcg cgaaggagcg ctgttcgcaa ttccggcgcc ggcaccatga 120  
 gtaagctgca gagtgattct ctgaggagcg cgattgctc aattaccaat gattcccgtg 180  
 agaagcagcg caaatttatt gaaaccattg agctacaaat tggactgaag aactatgacc 240  
 ctcaaaagga caagcgcttc agcggttctg ttaagctgcc tcacatccct cgcctaaga 300  
 tgaacgtatg catgcttgat gatgctcagc atgttga 337

<210> 13426

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-E7

<400> 13426

tgcagcattc aaaaacacac caagcgtaag cgcactagca acgacctaac accgattgct 60  
accaagatat tagccctcct tgcgcttctt gcccttttag tgagcgcaac aaatgcgttc 120  
attattccac agtgtcact tgctcctagt gccagtattc cacagttcct cccaccagtt 180  
acttcaatgg gcttcgaaca tccagccgtg caagcctaca ggctacaact agcgcttgcg 240  
gcgagcgctt tacaacaacc aattgccc aa ttgcaacaac aatccttggc acatctaacc 300  
ctacaaacca ttgcaacgca acaacaaca caacagtttc tgccatcact gagccaccta 360  
gccgtggtga accctgtcac ctacttgcaa cagcagctgc ttgcatccaa cccaatttgc 420

<210> 13427

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-054-Q1-K1-F10

<400> 13427

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agctacctgt tgctaccag cgctttttct tccattcaac caactaacat cattgaactc 120  
tcctgcttat ttacagcatc aacaactact accattcatc cagctatctg ctgtgagccc 180  
tgctaccttc ttgacacaac cacatttggt gcctttctac catcacgctg cgcctaacgc 240  
tgtcaccctc ttacaactgc aacaattgct gccattcaac caacttgctt tgacaaacct 300  
atcatttttc taccaacaac ccatcattgt ttttgccctc ttttatattt cttattattt 360  
atatttcatt attaaagttt ttt 383

<210> 13428

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-054-Q1-K1-F5

<400> 13428

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tnnnatttgt gtgagttgtg actagtggag ccttctgctga gctgtggtgg ccgttgtatg 120  
cncntagatt gacgttcgcg tgtattttct gttnngaatta nntgaaatnc atgtgcnnnt 180  
tgcctgttgn nctgttttng aaaacctgtg tgcagtggtc gagcccagca tttgtgcctt 240  
aagtgtnnct tttcaatttc aatctgtttg aaacctgtg ttgagtggca tagtcatgca 300  
gctctgtgcc ctaatgtcca tgtgctatca tcatgaagcc aggctaagcc aacaaagccg 360  
tgcccttgca ttcacagaag ccaacaagca accagctcgt gccagatgaa gaagcagcaa 420  
gctcgaacct taacttttaa agtgccttat agttttcaac ttttcagttt ttgtttggtt 480  
ttacttctgt gaatgctttt taaccgtgtg caactatggc cacattgtga tgtggttta 539

<210> 13429  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-054-Q1-K1-G7  
<400> 13429

tacgcttacc gcgtacgtac gtgtcttcgg gcgtggcact ctccagtctc catgacccat 60  
ccaccaagtg ctactgctcc ttcgtaggga gacgtgggaa taaagagtgg tagctgcatg 120  
cgcgtaaggc ggccatggct ctccgatgag agagctagct gtgtacgtgt gttcgtgatg 180  
ttgttccatg catgacatgt atacgtattg cctaattacg cttgaactag ttgagagact 240  
gtgcaagttt attgttctat ttattatata attatatagt actcttttta tgggggtgtg 300  
ttattttttt tattttttta tttttttta tttatttttt attttattta tattttttat 360  
tattttattt tttttatttt atctttttat tttattattt tattatttta tttttttata 420  
atttttta 428

<210> 13430  
<211> 389  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3059-055-Q1-K1-A11  
<400> 13430

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 gagaaaacta gagtaggtcg agaaggattg attatagatt gtttagaagg tattgccgctc 120  
 taaggaacga agagtttggc cagaagcaac atgctctgag acagctataa acatctggat 180  
 tgtaatgact actattcttc cagacttcat agacattttc ataggaatta ctctttccat 240  
 tccagaaaac aggacgtata aatttttcac gaatattagt gcaggatatcg atgctcagtg 300  
 ataaaataat gtataagtgg tgtgcaaatt tttctcgatc aaaatattat tttattatct 360  
 ttatttttat tttttttttt tttttttttt 389

<210> 13431  
 <211> 65  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-055-Q1-K1-A12  
 <400> 13431

gacccacgcg tcctgagaaa catctcaacc aacatcatat aattcacaat actacaccaa 60  
 ctact 65

<210> 13432  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-055-Q1-K1-B11  
 <400> 13432

attcccgggc ggcccacgcg tccgggtact tctccctccg ccgccactct cctcccattc 60  
 tccgccaccg ccaattccat gccgttctcc gccacggctg ctgagagcga gaagagatgg 120  
 caggcaaggg tgatgggccc gcaatcggca tcgatctcgg cacgacgtac tcttgcgctc 180  
 gcgtctggca gcacgaccgt gtcgagatca tcgccaacga ccagggtaac cgcaccacac 240  
 cctcgtagct cgccttcacc gactccgagc gccatcatcg agatgcggcc aagaaccagg 300  
 tcgccatgaa cgggaggagc accgtctttg atgccaagca tctcattggc aggaggttta 360  
 gtgatg 366

<210> 13433  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-B7

<400> 13433

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aataatgtcc caagcttgtc tactataaat attttgcttc cttatcctcc taactctttc 120  
tccacatggt tctactgcaa ccattttacc acaatgctca caagctccta taacttcctt 180  
tcttccccca tacctctcac catcattgtc ttcaatttct aaaatcccaa ttcttcaacc 240  
ctacatgatc caacaatcaa ttccaacatt catctttacc attatcaccc ttaatccttc 300  
aacaaccttc atccctatta cttcaattac ttttttttca ttttttttct catt 354

<210> 13434  
<211> 480  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C5

<400> 13434

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ccatgcatcg atccatggca ggggacgtca agtgcgagca gccgaagcgg acgccgagcc 120  
cgagcgcttc gtctctgagg atcttcggct acgacgtggc tggctcgggt atcgccgtcc 180  
gcatcatcga gccttcgcct catgacgatt gccggccgtc cgtggtggac agtatgcgca 240  
tgtttgagtt tctgttttgt tgtcttgtgt tcttttatct ttattttctt tttttttatt 300  
ttttattttt tttttttttt tggggggggg ttttttttta ttttttttta tttttgttct 360  
ttttattggt tttttttttt tttttatttt attttttttt tttttttttt ttgttatttt 420  
tttttttatt ttttttattt tttttttttt tttttatttt ttttttttta tttttttatt 480

<210> 13435  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-C9



<400> 13435

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gcgctcctag ctcttgtgca gcaccactag tgctacccat atcccagggc acttgtcacc 120

actactgatg ccattggcta ccatgaaccc atggatgcag tactgcatga agcaacaggg 180

ggttgccaac ttgctagcgt ggccgaccct gatgctgcag caactgttgg cctcaccgct 240

tcagccgtgc cagatgccaa tgatgatgcc aggtatgatg ccaccgatga caatgatgcc 300

gatgccgaat atgatgccat ctatgatggt gccgactatg atgtcaccaa taacgatagc 360

tag 363

<210> 13436

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-D3

<400> 13436

cgacccacac gtccagccac acgtccgccc acgcacccga taaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa agaaggataa aaaaaaaaaa agagcaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaacaac ccaact 195

<210> 13437

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E2

<400> 13437

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tgctgcagcag atgatccgtg aggccgatgt tgacggcgac tgccagatca actactagga 120

gttcgtcaag gtcattgatg ccaagtgagg agcgatcccc gttatctatg aatgaattga 180

agtgaatat caggcacaca agctgtactt tgccatgttc cttttgagta cacattatta 240

tcattgatga tgtcttgtct agtaatttat caacttacta ctttttttat ggggggattt 300

ttttcttact gaactcttct ttttattttg tatcttttat tactattttc tattttttct 360  
acttttcttt attttttttt ttttttcttt tttttctcat cttttttttt tttttttt 418

<210> 13438  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E4

<400> 13438

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catcagccct attacaacag ttacgtttgg tgcatttatt ggcacaaaac atcagggcac 120  
aacaactaca acaacttgtg ctagcaaacc ttgctgcta ctctcagcaa cagcagtttc 180  
ttccattcaa ccaactaggt tcattgaact ctgcttctta tttgcaaca caaactac 240  
cattcagcca gctacctgct gcctaccccc agcaatttct tccattcaac caactagcag 300  
cattgaactc tcttgcttat ttacagcagc aacaactact accattcagc cagctagctg 360  
gtgtgagccc tgctaccttc ttgacacaac cacagttggt gccgttctac cagcacgttg 420  
cgcctaacgc tggcaccttc ttacaactgc aac 453

<210> 13439  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-E6

<400> 13439

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aagagacaga agtgaagtgt aggctctaaa gttcagatcg ggggtgcaga aacatcgagc 120  
aaagtagata aacctactat cgataccagt gttgacaaat ttgtaaatga cgtgttcgag 180  
atcatctccc cattgttctt gtctgaggca ttgaagaaat tggacattaa gaaggaagat 240  
ctttctttga tcttagaagg cctcatggga cgggcagatc cagatttgaa gagtatagct 300  
atgactttga agaatgggtg gtatactctt tagttttcac tgctattata attctatgct 360  
tatatctttt tttatattgt tattttattt atttttcttt tttttatatt ttatttttta 420

tatattttata tttttttattt aattttttttt atttttttt

458

<210> 13440

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F12

<400> 13440

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tttgcataga tggcgctcct agctctttgt acatccgccca ctagtgcgac ccatatccca 120

gggcacttgt caccactact gataccattg gctaccatga acccatcgat gcagtactgc 180

atgcagcaac acgtgggttg ccaattgcta gcctagccga ccctgatgct gcacaaactg 240

ctggcctaac cgcttcagcc atgccagatg ccaatcatga tgccaggat gatgccaccg 300

atgac 305

<210> 13441

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F3

<400> 13441

ggtccggaat tcccgcgtcg acgccacgcg tccgagagca acatagaaag tggaatccag 60

tagcatcaac agagcaacaa tggcgaccag gatgttttcc ctccttatgc tccttgctct 120

ttctgcatgt gttgctaacg cgacaatttt ccttcaatgc tcacaagctc ctatagcttc 180

ccttcttccc ccataccttc catcaatgat agcttcagta tgtgaaaacc cagctcttca 240

gccctatagg ctccaacaag caatcgcagc aagcaacata cttttatcac ccttggtggt 300

tcaacaatcg ccagccctat ctttggtgca gtcattggta caaacatca tggcacagca 360

gctgcagcaa ctctgtgtac ctgtgatcaa ccaagtagct c 401

<210> 13442

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F7

<400> 13442

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ggagctcaag tactgctcgt tttattacaa attctgtcgg cacaccattt ctatcatcac 120  
caactattta atattcatca actctcatca aattctatca acatttttct taatcttttt 180  
atcttatctt tttttcattt tttatttatt ttttttttat cttaatatct ttttttttta 240  
ttatatattta tatatcattc ttaattattt attctttttt attt 284

<210> 13443

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-F9

<400> 13443

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tgaacttttag cagcgaatgt ttatgtgcag ctggtgtagt aaattcaatt gtgctctgtt 120  
ttccctgttt gtgttcatta tagttttatt tatatttatt tgccggggtgt gcgctgattt 180  
ttgttttaca tttactctat tttttttact gttttttatt ttcttttttt tatgattatt 240  
tctttctttt tttttacttt tttttttttt aattttttta tctttttttt tttttttttt 300  
ttattttttt ttttgggggg gttttttttt tttttttttt attttttttt atttttttta 360  
tttattttta tattattttt tatttctctt tttatttttt tttttttttt ttttattttt 420  
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<210> 13444

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-055-Q1-K1-G4

<400> 13444

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tttcaggcac anataatgct tgaaaggggtg acaccacaga tgatgcacat ggcaaagagc 120  
 caacagccct cgggctcctt atcacaatct tcatctcacc tcaatgagcc atatccacag 180  
 acagatgcta tgattccgct agtctcaaga ccttcaagtt tgccaactaa cataccaccg 240  
 aacccaactg tcttacagga acaaactgca acactacata gtattcctca gcatcaacat 300  
 gcatcccagc ccttagtcaa aatgtttcca catggacatc agtctgggat cgccgcacaa 360  
 tctccaatgc tacatcatgg agctatagtg ctggttctgt tagcttac 408

<210> 13445

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G5

<400> 13445

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 atgtgcactg ttaatgtctg caaaatttaa acattgggtgg gtaatacaaa attaatttta 120  
 acaatatttt tttattttat atttaataat ttaatttatt tcaatattat atattttatt 180  
 ttttatattt tttattatta tatatttttt attttatttt ttatttttat ttttatattt 240  
 ttatttttat ttttaatttta ttttttttta tttattattt atttttattt tattattttt 300  
 attttttttt ttttattttt tatttttatt ttttggttaat attaattatt ttatttttaa 360  
 ttattattta taatatatta tttttttatt ttattatatt aatttttttt tttattttta 420  
 ttttattatt tttatttttt ttttttattt ttatttttat atttttatta tatttttttt 480  
 t 481

<210> 13446

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-G7

<400> 13446

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ttcttcttcc tagatttggt gctagttttt ggcgtgttcag cattttaccgc cgggtgtcttt 180  
gatgaattgg tgggttggct tccttttgag gattctccga cattgggtggc cgattttttt 240  
ttttactact ctctttttgc tcctttttct ttatctcttt attttgggggt gtttttcttt 300  
atctgtttcg tttttttatt tttttgttat tttttttttt attttttttt ttattttttt 360  
ttttttttta ttctttttta tttttaattt tttttttatt tattttttatt tttttatttt 420  
ttttt 425

<210> 13447

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H12

<400> 13447

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cattattata cccatcggca accgcaacca accaaccaaa tgaccgtgat ccaacctaac 120  
cgtgggtgaa ccctatcgcc tacttgcaac aacagctgct tgcattcaac ccacttgctt 180  
tggcaaacgt agctgcatac caacaacaac aacagttgca acagtttcta ccagcgctca 240  
gtcaactagc catggtgaac cctatcgctt acctacaaca gcaacaactt ctttcatcta 300  
gcccgctcgc ttttggcatt gcacctacat acctgcaaca ac 342

<210> 13448

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-055-Q1-K1-H4

<400> 13448

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gtcaagctgg tgaaggcgct ctgtgctgaa cacaatgttc accttgtcac tgttctgct 180  
gctaagactc ttggcgagtg ggctgggctt tgcaagattg actcctaggt caaggcaagg 240  
aaggttgtat gctgcttctg tgttcgtttc aatgtctact gttaattatt ttatggtctt 300

aacattgtgc ttgagttttt ttattcttta ttttatttta ttttttttat ttttatcttt 360  
tatttttgta ttaggtctaa atatattttt ttattttttt tttttttctt tttttttttt 420  
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<210> 13449

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-A11

<400> 13449

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ctgtcctcag tcaactgttg tcatctgcta ccagcatttc gccattaaca cggtgtgcgt 120  
tcttacatca tcaaccatgc ttgccctaga gccagctcgt tgtgccagaa tcaccgcaca 180  
tttcatgaca tcccattata gctagtt 207

<210> 13450

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-B1

<400> 13450

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ttctaagtac tcagccagtg gtatttactg gttgacctac tgtagtttgc gtcggaatag 120  
atgtgttttt ttactcttcg tggggcagtt ttgtactggt ggattcataa ggactctgat 180  
tatgggtgcgt tcggaactta taataataag cacatgaaat tttgcttcaa aaaaatacta 240  
ccattcaaac agat 254

<210> 13451

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-C6

<400> 13451

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 gcatgcatct gtggcccacg agacaatata aacagtgtccc ttcacttggt agaggaaaca 120  
 ttttattcaa aaggacagat taaaattgca gacacaggaa ggatgcatgt catgaaagtt 180  
 tttgaaagtc attgaat 197

<210> 13452  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D3

<400> 13452

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 agggcctgtg aggaccagat cgcaaagctg aagaagagga gcgtggcgaa ggattcaaaa 180  
 gaagaacctg tcgtggggcg ctgcatgctg gagaatggcc gaggcgttag caacggaata 240  
 gctgcgacaa gcgaccctgc caaatgcagc tgtactcgta cgtagcatgt ggagcgaaac 300  
 gaaacggaat atattttctg gtgggtacaa tttggtctgc aagggtttta aagcgtggat 360  
 ctaaagatgt ccagatggaa acc 383

<210> 13453  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D4

<400> 13453

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 aaggctcctg gaggaccaga tcgcagagct gaagaggagg agcgtggcga aggattcata 180  
 agagaacctg tcgtggggcg ctgcatgcc gagaatggcc gaggcgttag cagcgagta 240  
 gctgcgacaa gcgaccctgt caaatgcagc tgtactcgta cgtagcatgt ggagcgaaac 300  
 gaaacggaat atattttctg gcgggtacaa tttggtctgc aagggttcta aggcgtggat 360



ctaaagatgt ccagatggaa acct

384

<210> 13454

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-D7

<400> 13454

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gccttcgatg attatcttga tgctacagga tcagggatga aggcattact cagcacaata 120  
gggatgcaca gaccaagatc ggatgtatct cgatcgaact tagtcatatg gctacagtct 180  
aaacccaacc atgagataga tatggctacg tgctaagcac taatgatgaa ttatagctgc 240  
tgaacaccta tgtgcatgag attctataac atgttcttgc gaaagatgaa aatctgtaga 300  
tcaatcaagc tgaatgtaaa aagtcgaagc atgaccaatg ctagtgctaa tgacacagct 360  
attgcatcaa cattcaggag agttgcacag attatataga ctgtgcatag gtccaatgct 420  
tattggacga ctgagtgcc a gactatgat 449

<210> 13455

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-056-Q1-K1-F9

<400> 13455

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gcgatggcta gaggtgtggt gtgagcgaag ggcggcacgg ccgcgggcaa gaagaagggg 120  
tcggtcgctt tcacgatcga ctgcaccaag cccgtggagg acaagatcat ggagatcgcc 180  
tcgctcgaga agttcctgca ggagcgcac aaggtcgccg gcggcaaggc cggctacctc 240  
tgcgaaatccg tcatcatctc ccgcgagaag accaaggtca ccgtcacctg cgactggccc 300  
ttctccaaga ggtatctgaa gtacttgacc aagaagtact tgaagaagca caagggtgcga 360  
gattggctcc gtgtgattgc agccaacaag gaccacagcg tctatgagct gcggtacttc 420  
aacattgctg agaa 434

<210> 13456  
 <211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-056-Q1-K1-H12  
  
 <400> 13456  
  
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 gacgagtga gattgtagtc atccgtactt tggctgcaac aatatccagt ttgtgtcgtt 180  
 gcatgtgaca atttgataat gcatttcttg tgcgttgta 219

<210> 13457  
 <211> 148  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-056-Q1-K1-H7  
  
 <400> 13457  
  
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 tttgtccctg aatattccta attataac 148

<210> 13458  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-057-Q1-K1-A11  
  
 <400> 13458  
  
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 atgctcgcaa gctcctatag ctcccttct tccccgtac ctctcaccag cggtgtcttc 180  
 ggtatgtgaa aacccaattc ttcaacccta caggatccaa caggcaatca cagctggcat 240  
 cttaccttta tcacccttgt tctgcaaca atcatcagcc ctattacatc agctaccttt 300

ggtgcattta ttggcacaaa acatcagggc acaacaacta caacaacttg tgctagcaaa 360  
ccttgct 367

<210> 13459  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A2

<400> 13459

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tggtgggaca gaggtggttg aagcaaaggc gggaaaaggc tctgcaacgt tgtccatggc 180  
atatgctggt gctgtttttg cagatgcatg tttgaagggt ctgaatggag ttccagacat 240  
tgtagagtgc tcttttgtgc aatcaactgt gacagagttg ccattctttg cctccaaggt 300  
tcggctcggc aagaatggag tggaggaagt gcttggtctg ggtgagctca acgagttcga 360  
gaagaagggc 370

<210> 13460  
<211> 476  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-A8

<400> 13460

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aacgaagaca cgaatagacg gcatgactac tgtcgtgaat gaggaactgg cgtgaagtgg 120  
atctgaatgc ttggatggac ttacgcagtc ctgaaaagag gcatacatga tgacggaata 180  
cttcagaagt ttctacgcaa ctcacgtagc acaaggcact tcaggagtat gacccatcgc 240  
tagtgggttg agagcacact tcaactggat gaaaggagat gctttaatct caaaggcttt 300  
agctattcat tccactcgaa agctacagca tgatctacta tgaggagtta ctacaacaga 360  
caagcaagtc aaactctcaa gctgtatgcc agaagaatgt tcatatgtgc tgaatctgat 420  
gaccttggtc caaaatatct gagctatttg aggtgtattg ttgactcaga cgcact 476

<210> 13461  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-057-Q1-K1-B3

<400> 13461

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ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcag cccccacctg 120  
agggccgcct tcctgatgcc actaagggtt ctgaccacct gaggcaagtt tttggcaagc 180  
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gccacaaaga gcggtctggt ttcgaggggg cctggactac aaaccctttg gtctttgaca 300  
actcttactt caaggaactt ctgagtgggtg ataaggaggg ccttcttcag ctcccaagtg 360  
acaaagccct gctgagcgac cctgtttttc cgctcttgt cgagaaatat gctgcggatg 420  
agaaggctnn tcttgatgac t 441

<210> 13462  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-B8

<400> 13462

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cagaaataag aagttacatt tccagattct aaaaaatata aaaaatgagt ataagaaac 179

<210> 13463  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C10

<400> 13463

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ttagtccctg tagtgcttag ccaggggtaa cgtaaagagt tctgtttagg ttgccttctt 120  
 ggggccacaa tcatgtagca gaatgtgcgt gtgtttcagg ttagcgtggg ggtatgtgca 180  
 tctgtccaaa gagagtctgc aatttggcaa ccggatattt ggttatcaat ttcagttact 240  
 tcgaaaacaa aacatacgaa tatgtgacat 270

<210> 13464

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-C12

<400> 13464

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 cgtctcgtct cgttgcggcg gcgggctcct cctcctcctt ctctcagcg tccccctcg 120  
 ctgcctaata ctctcgccgc ggtcttgccg gtgccgcaga cggccatggg tctgcgaagg 180  
 tgcccttgtg gaaagatccg ttgagcccgga gcaagtggaa ggaagagcac tttgttctag 240  
 caagcctctc aatgtggggg gttatttttt atggcgggta caagctttct agtggaaaga 300  
 atgaagccaa gactgaagcg gcatcaccac aggcataagt ggcctagatg gagttatacc 360  
 cgtatctgtg gcctggcaac aatgttaaata aaaaggaatg ctttatg 407

<210> 13465

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-D12

<400> 13465

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 cgggcagaat tgccgaggtc cgtgggacca aggagcctaa gaacctgtac aacatgcact 120  
 tattgaaaca cttgacttag gcgaacatga agactgcgac gagccagtca gctgcaaagg 180  
 actctgctgt ggtcctctct actaccaaga ccaataagca gaacgcacct gcgaagctca 240  
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<210> 13466  
 <211> 61  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-057-Q1-K1-D8  
  
 <400> 13466

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaggg 60  
 g 61

<210> 13467  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-057-Q1-K1-E5  
  
 <400> 13467

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 aaaaaaaaaa aaataaaata gaagggaataa caaaaaaaaa ataaaaaaaa aaaataaaaa 120  
 aaataaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaata aaaataaaaa aaaaaagaga 180  
 aaaaaagtaa aaaaaaaaaa agaagaaata aaaaaggggg atcattctta aagatgcaaa 240  
 gtttattaac attatatata atggataaat ttataaaaaa gggccgcaaa aatt 294

<210> 13468  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-057-Q1-K1-F1  
  
 <400> 13468

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 ggtgccacca gagcgagaac tgcatacccg tctgcaagag cgaggggaat accggcgggt 180  
 tctgcaagct cggggcttgc atgtgcacca aagagtgtgt ccgaagtact gacgctgctg 240

gtgctaataa agccccacag cagcatttga gttgatgagt agtaaagaag aacgcttttg 300  
 ttatgccagc gcaagctcta gaattcgagg ccgagatgac caaaaataaa tgattttgtt 360  
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<210> 13469

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-057-Q1-K1-F3

<400> 13469

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 aggtgaggag cgaacgcgac catatgggag aagtgactcc gtgctcatat aactagatct 180  
 gctctatgga tacttatcca tcattgacca gattgagtgt agtgaaaact cgatagctat 240  
 gaacactaca ggctttgaac acggtatact gcctacgcaa ctgaccttta taagccctgt 300  
 actttcgaca ctctgtgagc cgatgtctgt agcactcatt ggttcatac 349

<210> 13470

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-F9

<400> 13470

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 ttaaatecat gcatactcgc ttccggcgaa cggcagcatt tcaaccccat ggcctagatc 120  
 aagatcggaa tcaatgggtt cggcaggatc ggaaagctgt atggacatgg tggccctgca 180  
 aagtgtcgat gtatagctca ttgccatgaa ctacgacttt atcatcaccg actatatgag 240  
 ctacatgttc aattactaga ctgtgcactg acagagcaag caccatgaaa ataaacgtaa 300  
 ggacttcaaa acccttctat tttatgagaa tg 332

<210> 13471

<211> 340

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G3

<400> 13471

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agggcctcca agatcaggaa gctgttcaat cttgcaaagg atgacgacgt gcgcaagtac 180
gtgaacacgt accgcaggac attcactacc aagaatggca agaaggtag caaggcacct 240
aagatccagc ggcttgtgac ccccttgacc cttcagagga agcgtgctag aattgctgac 300
aagaagaaga ggatcgctaa gaagaagtct gaggtgctg 340
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<210> 13472  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-G9

<400> 13472

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tgcatatacc acaggcgact ccgcatactc gccaggctgc cccactggc accccaacga 180
gacctactgg ccagggtact actacagtca ccacttgctt caagtgtggt gaggttgggc 240
actacgcaa tgcttgtccg aagaggaatc ccaacacacc cgctcgaagc aatgtttaaa 300
gcaagcaaca gactctggct accggccagg ggtccaataa tgctagagtc aaccaaatta 360
gtgctgatgc tactgttgac gatgatgata tt 392
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<210> 13473  
 <211> 230  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-057-Q1-K1-H3

<400> 13473

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ttcagacttt gtttttgggt ctgatgcatg taaaaaggat tcccagtgtt tctgttgctc 120  
 ttgcgatacct gtgaggacac atatgagaga aatatttagt ttgttgatgg caaatcttgt 180  
 cttatgttca tgcctgtacc tatctgatca agcgttatga tatgatccaa 230

<210> 13474  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3059-057-Q1-K1-H4  
 <400> 13474

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 accgcatggt cgtcgaatcc cgttaccaga gggtcgccga gggcagatcc cgcctcgcgc 180  
 gcctcatcct cgtgcaggcg ctgcacctag tggccggagg cttgcttcta ttgctgtcgt 240  
 tgtccaaggg ggcggcggtg aacaagttcg ccgtgctgtc catggccgcg ggattcctgg 300  
 ctatagtggg gggggaatta gggcgaatgc ggaccatggc agtgctgctt cggctttaca 360  
 caagctagtc atcaattgcg gttgcattct ctgtgacg 398

<210> 13475  
 <211> 224  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3059-057-Q1-K1-H9  
 <400> 13475

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 tccccaatth aaatccctth gaagaaattc cccttttacc aagttgggta aatacaaaaa 180  
 agccccaaac gattggcctt tccaaaaatt tgccaaccta aatt 224

<210> 13476  
 <211> 450  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A3

<400> 13476

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tattccaaag ttctctccac cagttacttt aatgggcttc gaacacccag ctgtgcaagc 180  
ctacaggcta caacaagcgc ttgcggcgag cgtcttataa caaccaattg cccaattaca 240  
acaacaatcc ttggcacatc taacaatata aaccatcgca acgcaacagc aacaacagtt 300  
cctaccagca ctgagccacc tagccatggg gaaccctgcc gactacttgc aacaacaact 360  
gcttgcatcc aacgcacttg ctctggcaaa cgtagtgtga aaccagcaac aacaatagct 420  
gcaacagttt ctgccagcgc tcagtcaact 450

<210> 13477

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-A6

<400> 13477

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ggctaccacg atattatccg tctttgggct tcttgccctt tttgtgagcg caacaaatgc 120  
tttcattatt acacaatgct cacttgctcc tattgccatt attccacact tctccctcc 180  
agttacttca atatgcttgc aacaccagc tgtgcaagcc tacaggctac aacaatctct 240  
tgcagcgagc gtcattataa caaccaattg tccaattaca acatcaatcc ttggcacatc 300  
taaccatata aaccatcgca acgcaacagc gacaacaatt tctaccatca ctgatccatc 360  
tacctgtgct gaaccctgtc gtctacttgc acagcaattg ctg 404

<210> 13478

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B3

<400> 13478

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caaccatgtg agttatgtgg atctcaacaa gctactcaaa gtgcgggtggc aatcttgaca 120

gcagcacaat acctaccatc aatgtgcggc ttgtaccact catactacca aaataatcca 180

tgcagcagca atgacattag tgggtgtttgc aattgaagaa ttgtgtctac ctagccgtta 240

tactcctata acggtgttaa gcaataaagt accatacatt atgatgttaa aaaaagccat 300

agacagaaaa atgggtcaaa gctaagcaag agatgtacca atcaacatta aaagagactc 360

cgatacatga gtacc 375

<210> 13479

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-B8

<400> 13479

accggtccgg aattcccggg ctgggcactt aatctgcatg gactaatttg gtttacttag 60

ggtgatcatc atcttctcac tcattttttg tttggtttgt gcaatggaat gagttgatca 120

atca 124

<210> 13480

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-C1

<400> 13480

tgcacccacg cgtgcgcca cgcgtccgga agaggagat acatgttaat ttttaggtac 60

cagatcatct gattgctcag aagcgaaatg ttgtttggag ctcaagtaca ccatcttgta 120

atgcctgtga ttttacggga aatggaggat cattctgtcc atcccatgtc taagtctaac 180

catggctcct tgtcaggaaa tggttatgag atgaaacatt caggccataa agtttgcat 240

agggattcat catcggagtc tgatcggctc caccaagaag catcagcagc aagtgaagc 300

agtcctaatg aacacacatc aactcaatca gacaatgatg aagatcatgg gaaagataat 360

caggacacaa tgaagccagt attgtccttg gggaaggaag gctctgcctt ttggccccaa 420  
aattacatta cagccca 437

<210> 13481  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D1

<400> 13481

attcccgggt ctaccactc gtccgaatga ggtataaatc atcgttgtgg tgtaaaaaaa 60  
ttaaaaaaaaa ataaaaaaaa aaaagaaaaa cggaaaaatt aaaaaaaaaa ataaaaaatt 120  
aaaaaaaaaa ataaaataaa aaaatataaa gtacaacctt ttttaaattt ccaaacttac 180  
tttcacttac tttcaacata ataactttcc tttaatgtcc caaaatttca attcattacc 240  
ctttatttt 248

<210> 13482  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-D11

<400> 13482

cggaattccc gggtcgaccc acgcggccgc tcactaccat gtttgatctc agcgagcagc 60  
atgccacag cattgttagc aagatgggga tgcgtgaaga gttcatgct agctgggacc 120  
agccaacaaa gtgcatcgta ttccatagtg tggaccaaac taggcttcag gggctactct 180  
tccagatggc agataagctc tcggtcctgg tggagatcaa tgagagggca tacgaggcaa 240  
gaactggttg tgctctcgag ggggtaccgc ccaggcgagc gggtaggggt caggataata 300  
tgggaaagtg gcaggataac tttgtctcgt cacaggggcg gcagggtggt ggcaaccggt 360  
ttggatactc cggcagaggt gcaatatctg gtcaaagtgg tggtaggacac cagagggaca 420  
ggggcaatca gggttaccgc gggggctatg gtggcgtttc aa 462

<210> 13483  
<211> 123  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-E5

<400> 13483

cctccatccg cactactgag agcgacaaag ctagctctct ccagggatcg gattcggagc 60

accatgccgt ccaccgtgaa ctccgcgtcc ctcgaccaga accttgagct cgccaagcaa 120

tgc 123

<210> 13484

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-F9

<400> 13484

tacctcctcg gaattccccg gtcgaccac tcgtcctcgg actcttgga aaaaaaaaaa 60

aaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaagaaacca aaaaaaaaaa 120

aaaaaggcca cccatttata agatcccaac ttaactaccc cttcattcca aataattact 180

tttttttttag tgcacctaaa ttcaattcca ttgccctttt tttaaaacct tcttacttga 240

aaaacccttg ccttacccaa attaattccc tttaaaaaaa ttccccctttt cccaacttgc 300

tttattacca aaaagccccg acctattcgc ctttccaaaa ttttcccaac ctttaattgcc 360

aattggaacc cccctttaac cgcccattta acccgcgcgt ttttggtgtt tcccc 416

<210> 13485

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-058-Q1-K1-G2

<400> 13485

tcgaccaacg cgtccgaaaa agacgacgac cagcttacct ttactaccgg caagtgcccc 60

tgccggtcct ctgggcagcc agttanattg tacgactagg tatcgtcgta cgtcgtgccg 120

catgcatgca tgcgcagaag gccaaagatgg ctatgcagaa agcgtagcat atatcataca 180

tgagcaacgc caaactgtgt agatatgtgc aagttttgca gtgtgctaaa tgcattgtgcg 240

cattgaagag gcaagcagcc caatttgcta ctcatggcca gtaatcgaac aatgataatg 300  
 ttgccaaaac tactagcgca tgttacatcg tgtgatgcat atcactatat gagcatgtgg 360  
 aatcaagcat gcatcctgag atagtagctg tgctggtata tattactgca tt 412

<210> 13486

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-G7

<400> 13486

ggaattcccg gctcgacgcc acgcgtccgt gaacaattga aatgaaacga aaaaagtttt 60  
 gttccaaaaa aaaaaaaaaa aaaaaaaga aaataaaaaa aaaaaaaaaa ataaaacaaa 120  
 cactctaaag gttccacgct ttcgtagatc caaatttaca ttcccttctt ttctatgtca 180  
 tcaactttat atattgtaac ctaacttcaa ttcacatacc catcggtata caaaaccctg 240  
 actttcaaaa ccttatcctt acccaactta ttcccttttt agccaattcc cttttcacca 300  
 actagcctaa taccgatcag ccttgcaccc atcgcccttc ctaacatttc 350

<210> 13487

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H7

<400> 13487

gtgaaaataa agcatccttt tactataatt gatgtcgcat tagttattct gaaccacagg 60  
 agcctgggtc agtacctact accctgttta tcataggacg tggagagAAC tcgtccagtt 120  
 ttacattccc gtcactgctt tgccggagtg ctgtggcaat ccataaaatc taataaagta 180  
 acaataagct gtctgcaact gcaaaaaaaaa aaataaaaaa aaaaaaaaaa aacaaaaaga 240  
 aaaaaaataa acaaa 255

<210> 13488

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-058-Q1-K1-H9

<400> 13488

aaggaaaagg gtctgcagaa atcctcttat gcagggtggaa agaagctaag aacatatcac 60  
aatcttttga cgataaaagc ggagatcctc tatgatgagg tcaaacaaaa catgttttcta 120  
cggaatcaag aaagcttgac acagtcgatt ctgtaggcat tccacccaaa ccccgtagcac 180  
atgctatgga aaccacccaa ttcagggcac aggaaaatta ttggttcttc acggacatgg 240  
aaatggcatc ataagagttc tctccaatct cttcaatatc cccagttatc gttacggatt 300  
tcacgtcaa acttcttcct gagttcaggg tactttctcaa agtaatcatc tgetgtcatt 360  
gtactgatct ttttcctcat ttcctccatt tcagc 395

<210> 13489

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-A1

<400> 13489

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caccagtga gcccggcggc gacgccctac ggctcgccac agtgccaggc gctgcagcag 120  
cagtgtgcc accagatcag gcagggtggag ccgctgcacc ggtaccaggc gacatacggc 180  
gtggtcctgc agtccttcct gcagcagcag ccgcagggcg agtcgcggc gctgatggcg 240  
gccaggtag cgcagcagct gacggcgatg tgcggcctgc agctgcagca gccaggtccc 300  
tgcccttgca acgcagctgc cggcgggtgtc tactactgag gaaactatgt actggagtaa 360  
taatgtaatg gagccgctgg ctagctacct agctcgctag ttactcatt t 411

<210> 13490

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B1

<400> 13490

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tgccttttga tgaagccaaa ctttgtcggg gcgaaaatgg tcctgagcta aagcaagaga 120  
 ttcagaagca atttagaaac attagtgcaa ttatggactg tgttggatgc gagaagtgcc 180  
 gactgtgggg aaagctccaa gttcatggtc ttggaactgc actgaaaatt cttttctctg 240  
 ttgatgggga cagccatatg aatcagccat tgcagctgca gcgaaatgag gtcattgcat 300  
 tgttcaatct tctgaacagg ctctcagagt ctgtcaaatt tgtacatgaa aaaggatcat 360  
 caattgaaga agtcattgag gaacagatcc cttcaacggg tcaaaagagt gtttccatgc 420  
 cgaatcttaa actggactta ctctgagatg tatgagagta attttagtatt atac 474

<210> 13491  
 <211> 155  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B11

<400> 13491

gaccactcg tccgccgaca cgtacgccc cgctccacc ctctcgctcg cccacgcac 60  
 ctctagtcac aagttccttg caaacgattg cctatcccc tcccaaccaa agacctatgg 120  
 cacccaatgc cgagaagaag cccactccca agaaa 155

<210> 13492  
 <211> 471  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B3

<400> 13492

ggcccgaat tcccgggtcg acccactcgt ccggttaaga agtgggtctc caagactagt 60  
 tgaactgaac gattttgtgc gtcaacgaca cagcaaagga tttcttgatg ttcttagttt 120  
 tagtgagacc caggtcacac cgattgttga aggatatggc ggttgggcac ttcgtatgga 180  
 gatagtgcc attgaatctg cataccagg ctttggggag cttgtcggtc taccgtccac 240  
 tgatcatata aattcatgta agccagttaa catgaacgat ctttcttatg cggaacctt 300  
 ggcatttttg gagaagaact tcaaattatg cctggaaaga gcagagtcct aggtcttgct 360  
 aatggcgccg tggagttttc agcaatctga aggcttcatt ttccatttac cgtcagagac 420



ttttctcccg ttaacgacga atggtggttg atctgaccat atgatctggg c 471

<210> 13493  
<211> 193  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-B4

<400> 13493

accactcgt ccgactgtta attcgttcta tctgcctacc tttcgcatte ttttgaaccc 60  
attctctata cgagtatcga tatcactgag ctaaaactta tcattcgact gcattccatc 120  
atctatatat aaactatcga cttcgatctc ttcgccacga tccatctcta aatcagcact 180  
cactacctta cct 193

<210> 13494  
<211> 476  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C1

<400> 13494

tcctgcattc ccggatcgac ccactcgtcc gattgagacc aactagcaac atagaaagca 60  
caatattgta ccaataatgg cagccaaaag attttggttc attatgctcc ttggtctttc 120  
tgcaagtgtc gctacggcga gcattttccc gcaatgtcga caagctccta tagcttccct 180  
tcttccccca tacctctcac cagcgatgtc ttcagtatgt gaaaatccaa ttcttctacc 240  
ctacaggatc caacaggcaa tcgcagcagg catcttacct ttatcacctt tgttctctca 300  
acaatcatca gccctattac agcagttacc tttggtgcat ttattggcac aaaacatcaa 360  
ggcacaacaa ctacaacaac tcgtgctagc aaaccttgct gcctactctc agcaacagca 420  
gttacctttg gtgcatttgc tggcacaaaa catcaaggca caacaactac aacaac 476

<210> 13495  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C10

<400> 13495

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attagccctc cttgcgcttc ttgccctttt tgtgagcgca acaaatgcgt tcattattcc 120

acaatgctca cttgctccta gtgccattat accacagttc ctccgaccag ttacttcaat 180

gggcttcgaa cacctagctg tgcaagccta caggctacaa caagcgcttg cggcgagcgt 240

cttacaacaa ccaattaacc aattgcaaca acaatccttg gcacatctaa ccatacaaac 300

catcgcaaca caacagcaac aacagttcct accagcactg agccaactag atgtggtgaa 360

ccctgtcgcc tacttgcaac agcaggtgct tgcattcaac ccacttgctc tggcaaacgt 420

agctgcata 429

<210> 13496

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C11

<400> 13496

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tctgaatacc cctggtgatc ttgccattag ccttggtact agtgatacag tattcgggat 120

aacaacagaa gctaaaccaa gccttgaagg acatgttttc cccaatcctg ttgagcctaa 180

tggttatatg gtcattgctat gctacaaaaa tggctccttg accagagaag atgtacgaaa 240

tctctgtgca gacaaatcat gggacgtttt taacagctat ctggagaaaa cgccccctct 300

aaatggtggg aagttaggat tctactacta agaccatgaa atcctcccta cacttccagt 360

gggtttccat cggtagactg ttgaaaacct gaacgacgtc tcatcagacg ctctgttgga 420

gcgtgaa 427

<210> 13497

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C5

<400> 13497

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gaagaggcat ctcaactgcag aggggtgagat gaaatatgaa ccaaccattg gtgttgaagt 120  
tcacccgttg gatctcacca ctaactgttg taagatcacg ttctactgct gggataccgc 180  
atggcaagag aagtttgggtg gcctcatgga tggatactat atccatggcc agtgtgcat 240  
catcatgttt gatgtaacct caaggcttac ttacaagaat gttcctacgt ggcataagga 300  
cctgtgcaat gtctgtgaaa aca 323

<210> 13498

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C8

<400> 13498

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agcaagcagc agccgtcggt ggaagatgtc gtacctgtg ccgcatctgc actcgggggtg 120  
ggcgggtggac caggccatcc tcgccgagga ggagcgccctc gtcacatcc gcttcggcca 180  
tgactgggac gagacctgca tgcagatgga tgaagtgcta gcagcagtag ctgagaccat 240  
aaagaacttt ggggtcatct accttgttga catcacagag gtccctgatt tcaacaccat 300  
gtatgagctg tacgaccctt cgacagtgat gttcttcttc cggaacaagc acatcatgat 360  
tgatctcggg actggaaaca acaacaagat caactgggcc ctgaaggtag agcaagagtt 420  
catcgacatt gtggag 436

<210> 13499

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-C9

<400> 13499

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ggtctaaaag aatccaagct tacatacgcg tgcagtgtac atcatatctc ttctatagt 120  
ccacctaaat tcaatt 136

<210> 13500  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-D1  
  
 <400> 13500  
  
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 tgctcctagt gccagtattc cacagttcct cccaccagtt acttcaatgg gcttcgaaca 180  
 tccagccgtg caagcctaca ggctacaact agcgcttgcg gcgagcgctt tacaacaacc 240  
 aattgcccac ttgcaacaac aatccttggc acatctaacc ctacaaacca ttgcaacgca 300  
 tcaacaacaa caacagtttc tgccatcact gagccaccta gccgtggtga accctgtcac 360  
 ctacttgcaa cagcagctgc ttgcatccaa cccacttgct ctggcgaacg tagctgcata 420  
 ccagcaacaa caacagctgc aacagtt 447

<210> 13501  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3059-059-Q1-K1-E5  
  
 <400> 13501  
  
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 catagaacgt atcggcgggc atgggtcatca gactcggcca gaactctatg atgacgcgct 180  
 agacgaacct catgcagaac actgtcagtc cttgcgagca gcttgaactg atcatgaagg 240  
 ccgtcaacgt gcaatacaag aagcgcatgc acacgtatta tagaccgcct acaaaggcga 300  
 aatcagctga cattcctagg ctaggccatg cactgtcaga gtctacgagc tggttgcca 358

<210> 13502  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-E8

<400> 13502

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tcagtatcaa aaggtcatag cacaatgtaa agttcttaga tcaagataca tactgatggc 120  
aataacctct ctatagaatc atcaaagtta cacctccaga tccttagtat cacatgccat 180  
atgtatacca tttatgatgc tagaatgtac cgatataaac tатcctacca ttсgсagaaa 240  
acctaattat gaacctctgt atttacatta actgatttca atcaaata tatctaattc 300  
tatataatac tcaaattggt cata 324

<210> 13503

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-F10

<400> 13503

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ttctggaggt taataactaag acaacaaagc tccgggaagt cattgaaaaa gttataaaaa 120  
gcaaacttgg aatgaacctc cttttgataa tggttggtgc cacgctagtt tttgaggatg 180  
gtgaagattt ggaagaggat gaaattgcaa attatgcttt aaacctcgaa aaggctcttg 240  
ctgaacttcc agctccagtt ctaaatggta caacacttac agtcgaggat tttcatcaag 300  
aactaaaatg cagtatcaac atcaaacaca gggacgagtt tgatgaagaa aaggagcctg 360  
acggaatggт tcttgctggg tggtctggcc cagttgataa gcaaattacc agtaatggтg 420  
agaatagat 429

<210> 13504

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-G12

<400> 13504

gtcgcсccacg cgttcgсcca cgcgtccgcc cacgcgtccg tgtcgттggg caaggтctag 60

ttcgggtgttg tgtatggaac ggtcgtcact gagtcattgca cgatttggta tccgtgttgt 120  
 ttatgttcac cggtttgagg aactctc 147

<210> 13505  
 <211> 347  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H1

<400> 13505

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 cgccgggacc tccttcgtgc cggagtgggc catcccgac aaccgctcc cgagctgccg 180  
 ctggtacgtg acctgccgga cctgctgcat cgagccttgc ctcccggtggc cggagctgat 240  
 gatgagatgc tgccgggagc tgacggacat cccggcgtag tgtctgcgca cggagctgaa 300  
 catcctcatg gactgctcga ttacgtccgg cctggactcc catctat 347

<210> 13506  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3059-059-Q1-K1-H10

<400> 13506

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 ctggtacca agattgatag gcgatccggc aaggagctgg agaaggagcc caaatctctc 180  
 aagaacggtg atgctggtat ggtgaagatg gttcccacta agcccatggt ggtggagacc 240  
 ttttctcagt atcctcctct tggtcgattt gctgtccgtg acatgaggca aacgggtggct 300  
 gtcggagtca tcaagagtgt ggagaagaag gacccaactg gagccaaggt gacgaatgct 360  
 gctgccaaga agaaatgatc tatctgtctg gtgctgtgct tgctttgtgg ttacctcgtg 420  
 gaagctaaaa atatctcgtc tt 442

<210> 13507  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A2

<400> 13507

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cccgatgaca tcgcgctggg cggggacact cgcactggtg aggcacgcgc taagatgagt 120  
ttcgcttgcc tggatgcttg tgctacgatg agcttgcttg ataagacgta gttgcttgag 180  
tgcgcaatca tgtgcatgga aggacctacg gaaactgtct gcatggacat gccaacccg 240  
ttcatacact gctgactatc acatgacacg aacgcttgga gtgtgtgctt accgcgttct 300  
gatattccat gaccctgatc acatgtctgc atcagttaca tgatacatgc gctatgctac 360  
taacaaaccc tac 373

<210> 13508  
<211> 111  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A4

<400> 13508

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cattcgtatc tatttaaaaa aaaataaaat aaaatgaata aaaaaaaaaat a 111

<210> 13509  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A5

<400> 13509

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gtctgtcgag tatcgtctgtg tggctacca gcatagtcgc ggggtctacc tggaccgctg 180  
ggaggcgact tgcttggtgc gctgcccgga ggacagtctc cagggtgcag aggcctgctc 240

agagcactat tctattttctg agcgggactc agctgaggca gccatgcaag atgctgcacg 300  
gcgtagcgctt tcgcactact gctcggtttt cggtaggggca gctgatggtc ttgacctgaa 360  
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<210> 13510

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A7

<400> 13510

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atagccaagg agctgctcaa tgggcagaag gtggtagtgc tccgctgcga ggagatctgc 180  
atgtcgggag gctcgtccg tcagaagatg aagtacctcc gcttctccg caagcggatg 240  
aacaccaagc cgtccacagg gcccatccac ttccgcgccc ccgccaagat cctgtggcgc 300  
accatccgag ggatgattcc gcacaagacc aaaagggggg agggggctct ggtaggctc 360  
aagacgtacg 370

<210> 13511

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-A8

<400> 13511

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gaagcaaagc tacagttcta tggtaggcct gatgtagtgc tcatgcagag aacgccatta 120  
atccattttg tacagacagg caacattgat cttagggcca agaaagaagc tcaactcggc 180  
atgcttctgc tttgaagcaa gggcaacaaa cttacccac cagatctctg tcgcaaagc 240  
agggctagtg aataagctgt gtttctccc ggattgtcac tgctttata tttgtgcatt 300  
tattttgagg gaaacatttt gcccaaaaaa ggctgcagt gcacgtttta aacaagtcatt 360  
ttgaaccaac tcttatgctg aaaactgtat gtgatactgc agaaggcaac acacta 416



<210> 13512  
<211> 142  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-B11

<400> 13512

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atatatatat atctcgagaa ggagtttatg tttatcatga aacaagtga atacagtttc 120  
agcgctttcg tgttgcgcct ca 142

<210> 13513  
<211> 427  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3059-060-Q1-K1-B12

<400> 13513

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aagtgtgct acgacgacca ttttcccgca atgctcacia gctcctatag cttctcttct 180  
tccccatac ctctcaccag cgttgtcttc agtatgtgaa aaccaattc ttcaacccta 240  
caggatccaa caggcaatca cagcaggcat cttaccttta tcacccttgt tctccaaca 300  
atcatcagcc ctattacatc aattaccttt ggtgcattta ttggcacana acatcagggc 360  
acaacaacta caacaactcg tgctagcaaa ccttgctgcc tacgctcagc aacagcagtt 420  
acctttg 427

<210> 13514  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C5

<400> 13514

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 actatgccct tctactcttt ggtgggttcgc ttagtccgag caaaactgga gaaggcattg 180  
 agatgcttgg gggttatctt catttctcgg ctccaaagcg taccatagag ttgattcaga 240  
 aattaagagg tgaattggac aaactccttc agaaaaagat tgaggaacct ggactcgaca 300  
 tcttttcgca aggaaagggg gttgtggcgg cagctgtaga actgctacac agtcaaaatt 360  
 tcgaccatta gatgccaaat attacatgtt atcaggacaa gtttcacact 410

<210> 13515

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C7

<400> 13515

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 attggcctgc gtccccaagc acaaaataat caactacagt aacacgaccg gatcgatacg 180  
 gtgctttttt tagctctgat tgaaatgaac gaacgtatga acgacgaact tccgccgcca 240  
 atttggttta ttgccttccc tttgccgtga aaccctcgt acgtagcaca cgacggccgc 300  
 gcgctcacia gccgggtggtg aaggggatgg acgtgccggc gagccagagg tcgccgtcga 360  
 tgaagttgcc aacggtg 377

<210> 13516

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-C8

<400> 13516

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 gcacgtgccc gtagacacgt cgactcttgc cagacgagca ccaactccgg cctctgctcc 180

tacaacgaga tcggatactc cacagacatg caccatggtg ctgcggatct tatgctacgg 240  
 ataactgatc tggaaccccg gctaacacat taactacaaa atcctcggct tcataaaggg 300  
 ttacattcgc acctttaatc ttgcttgcat tgaccacaga ggcacaccgt aacatgcagc 360  
 gaggacctgt acgcttgaaa ccgacgacta ggacatatgc tggggaattg catatt 416

<210> 13517

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-D9

<400> 13517

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 cttgcatgag aatgcacctc ctccgtccat tatctgagac atctgacttg atcctagtcg 180  
 catccattac acattcccct cacagctgtt aaaacactga acaaagaaca cccaaatatg 240  
 aacggctctt tgctacaaca cacatctgac tccagtttct atctacttca ttttatcctg 300  
 attcagcatc actcctatgg acatttaacc atacaaacta ttttatcata cagctaacat 360  
 aatatactac ctgactagac tcatata 387

<210> 13518

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-E5

<400> 13518

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 gcgccaagga agcagctggc caccaaggcg gcgcgcaagt ctgccccggc gaccggcgga 180  
 gtgaagaagc cccaccgttt ccgccccggc accgtcgcgc tccgggagat ccgcaagtac 240  
 cagaagagca cggagctgct gatccgcaag ctgccgttcc agcgcttggg gcgtgagatc 300  
 gccaggact tcaagaccga cctccgcttc cagagctccg ccgtcgccgc gctgcaggag 360

gcgtccgagg cctacctcgt cgggctcttc gaggacacca acctctgcgc cattcacgcc 420

<210> 13519

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F12

<400> 13519

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cctacattca att 73

<210> 13520

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-F7

<400> 13520

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tttaccagca tattataacc tgccttcctt ttctgaacgc tcaacggacc ggaccaattg 120

cttgattatt gcacaaagct taatttgctt aagggtcaag attacacaag ttcttcgaac 180

aagtacctca attggcttag aacacccaag tatgcaatgc tatatgctac aacaagcaat 240

tgccggcgagc gtgttacaac aaccaatttc ccagttgcaa caacaatcct tggcacatat 300

aacactacac accatcgcaa cgcaacagca acaacaattc ctaccagcac tgagccacct 360

agccatggtg aaccctgccg cctacttgca acagcagttg cttgcatcaa acccacttgc 420

<210> 13521

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G11

<400> 13521

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catagtgcct tatttcataa tcttttctta attagttata attttaatgt gagccccacc 180  
ccactgccgt cagcttatga actgatgttt gctgccacag tatgaagggt cgaggagcca 240  
tttctagttg ccttccggac aacaacttga aagttcttgt accagtgcta gagaaatctg 300  
tgtcatttca tctgcagctg aacatgatga caagggaaac gcattcagct gtgactgaag 360  
tcatcgaaag a 371

<210> 13522  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-G12

<400> 13522

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ccgtccaaga gcagctcaaa ggcaagcaag aagagacgct gatctactta taggtcgcag 180  
ttgacggtgt aactggtggt tttgcctgga ggaactcttg gtagtttgag ctgtgcgaaa 240  
gcttttaagt atacatttac tcaccactcc atgaacggca acgaagtatt catcagttag 300  
aaaagtgcac ctataattta ggttgcttat aactctctat ttgtcagaca tttaactcga 360  
aggacctgtt actaggaaag ctaattttgc ttggaagaac attctgataa ataacagt 418

<210> 13523  
<211> 441  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3059-060-Q1-K1-G3

<400> 13523

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agctcggcgc agcgggcagc agctgccgcc ctgctcgtgg cggtggtcgt cctgggtggtg 180  
ggcgcgccgg cagtgtgcga catgagcaac gagcagttca tgcgtgccca gcccgcgccg 240  
gccaagacga cggaccgccg ggccgcgccg tcgcaggcgt gctgcgacgc gctggcagtg 300

gcggaacctca agtgccctgtg cggctacaag aactcgccgt ggatggggcgt ctacaacatc 360  
gaccacaagc gcgccatgga gctgccggcc aagtgcggcc tcgccacgcc gnccgactgc 420  
tagccaagcc aagcaggaag g 441

<210> 13524

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H11

<400> 13524

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ctaaaattga accaagtcaa aaaaaaaaaa aagaaaaata aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa ataataacaa ataaaaaaaaa 180  
aaaaaaaaata attaagaaaa atctgaatac aaaatacaaa aaaaatacac atcagattaa 240  
gatctgatgg atcatataga cactatgaat gacgaagaaa cc 282

<210> 13525

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3059-060-Q1-K1-H3

<400> 13525

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tcgaccggga ggggtgtatt ctacctggcc ctgctggtgg tgattgccac cactgagcac 120  
atgcggttgc aggcggtag cggcgtgcga tcccatgccc gtggtggtgt gcgatacggc 180  
gttcatgtac ggagcgaac cctccgtatg atgctgctcc accctgcgtg cgcaggaggc 240  
atgcttgtgc gtgtacgcca aagaccccaa gtttgcaaaa tacatcaaca accccagcac 300  
cggcaaaacc ttaccttgc gcggcatatc catacccaaa tgctaagcaa gcgctctgcg 360  
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t 421

<210> 13526  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tgcagaactg gagcagctac taatgtcatt tttgggcttg ctttgggtta caaatcagtc 180  
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gatgcatatg gccctatcag tgataatgct ggaggaatag ctgaaatggc tgggatgagc 360  
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ggngaggggtt ttgccattgg ctctgc 446

<210> 13527  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G9

<400> 13527

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ccgtactggg tctcggcaat gaccatgaag agtgtgggca gtgctgcgct caagatgggtg 180  
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gactacgcaa ctttgttcaa gatctcaacg gatgcatcca tcaaggagat gatcccccca 300  
agtgtctctg ttatgctcac accactgacg gttgggattc tatttggggg tgagaccctc 360  
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actggtgggtg 430

<210> 13528

<211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3060-015-Q1-K1-G3  
  
 <400> 13528  
  
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 ggctcatgga aggcaccaca cagcctgact acgcaacttg tgtcaagatc tcaacggatg 360  
 catccatcaa ggagatgatc cccccagtg ctcttggtat gctcacacca ctgatcggtg 420  
 ggatt 425

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3060-038-Q1-K1-B1  
  
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 gaggaagttc gtcggcagtt caacaacatc cctgggctca tggaaggcac cacaagcct 240  
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<210> 13530  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3060-032-Q1-K1-D3  
  
 <400> 13530



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 aatcatcatg tgctgctctt gttgtggcct ctatctcgtc ttttggaatc aaccatgaat 240  
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 caacgctgtt tgcaactgat ttcttcgaga taaaggctgt ggatgaaata gagcctgctc 360  
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<210> 13531

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E10

<400> 13531

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 ccgctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac atggacaact 240  
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 cccgttcttg gggaccacaga tcaatatatc tgttatgtag cttatccatt agacctatct 360  
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<210> 13532

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C3

<400> 13532

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tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180  
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 cgcctaattcc atatcgagta gaccctgtcg ttgtgagaat tcttaattca tgagttgtaa 300  
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<210> 13533  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-A10

<400> 13533

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 taatgagttg atattaatta aatatctttt ttttttagatt tttgcaaagg tttcatttac 240  
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<210> 13534  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F8

<400> 13534

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 gcagcattcc gagtaactcc tcagctctgg gttccgcctg aagaagcaag agctgcagta 180  
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<210> 13535  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3060-020-Q1-K1-H7  
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 gctatcacat cgagcccgtt cctggggacc cagatcaata tatctgttat gtagcttata 180  
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 tatttggttt caaagcctta cgcgctctac gtttggagga tctacgaatt cccctgctt 300  
 attcaaaaac tttccaaggt ccgcctcacg gtatccaagt tgaaagggat aagttgaaca 360  
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<210> 13536  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3060-052-Q1-K1-B5  
 <400> 13536

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 ggtaacgtat ttggtttcaa agccttacgc gctctacgtt tggaggatct acgaattccc 300  
 gctgcttatt caaaaacttt ccaaggtccg nctcacggta tccaagttga aagggataag 360  
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431

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<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D4

<400> 13537

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cttacacgct ctacttttgg aggatctacg aattccccct ggtgattcaa aaacttttca 180

agg 183

<210> 13538

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A3

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ccattagacc tatttgaaaa aggtttctgg tactaacatg ttt 163

<210> 13539

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E12

<400> 13539

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cctcaccctt cacagggtt tgggattcac cccgaaatga ctacttttcg gtgaaattca 180

cccgttatcg gcgagggcgt tttatttttc ttgtcaaatg atttcattgg 230

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A10

<400> 13540

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ggcacacaaa gctcatgctt caacccaagg agttaccaag tatttgaagc ctgctgttgc 180  
cggcttcctc atgcataatg aacttgacta ccttggttga actggtgcc acccaaagaa 240  
gccatttgcc gctattgttg gtggatccaa ggtctcaagt aagattggtg tcattgaatc 300  
cttgctggcg aaagtcgata tccttatcct tgggtggtggt atgatctaca cattttacaa 360  
agcacaagga tattctgttg gaaaat 386

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<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3060-012-Q1-K1-H11

<400> 13541

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agagctcatg cttcaaccga aggagttacc aagtatttga agcctgctgt tgccggcttc 180  
ctcatgcaga aggaacttga ctaccttgtt ggagctgttg ccaacccaaa gaagccattt 240  
gccgctattg ttggtggatc caaggctetca agtaagattg gtgtcattga gtccttgctg 300  
gcgaaggctg atatcctcat ccttggtggt ggtatgatct acacatttta caaggcacia 360  
ggatattctg ttggaaaatc tctcgtggaa gaggataaac tngagctcgc aacttctctt 420  
attgagaac 429

<210> 13542

<211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G5

<400> 13542

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gcggacaagt ttgcagctga tgctgagagc aagattgtcc ctgccactgc tatccctgat 180
gactggatgg gtcttgatgt tggccctgat gccacaaaa cattcaacga agcattggac 240
accaccaaga ctgttatttg gaacggcccc atgggagtggt ttgagttcga gaagtttgca 300
gctggcactg aggcgattgc caagaagcta gctgagctta caaccacgaa ggggtgtcact 360
accatcatcg gcggggcgga ctctgttgc gctgtcgaga aggctgggct ggccgacaag 420
atgagccaca tttc 434
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<210> 13543  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H6

<400> 13543

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cggcaggctc gtggccaggg tcgccctgca gagcgaggat gtcgagctcg tcgccgtcaa 180
cgaccccttc atcaccacgg attacatgac gtacatgttc aagtacgaca ccgtgcacgg 240
ccaatggaag cacagcgaca tcgccctcaa ggactccaag acgcttctct tcggcgagaa 300
gccggtcacc gtctttggca tcaggaaccc cgaggagatc ccgtgggggtg aggctgggtc 360
tgagtatgtc gtggagtcca ccggtgtctt cactg 395
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<210> 13544  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D9

<400> 13544

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tcaagtccgc cgccagcctc cccgtcgtcc gccgcagcac caggagcctc ggcaacgtca 180  
gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac aagaagtctg 240  
agacgtgtgc gtacctgccg ccgctgtcga cggacgacct gctgaagcat gtggactacc 300  
tgctgccccaa cggctggata ccctgcctcg agtcagcatg ctcggttctg tgtaccgcga 360  
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<210> 13545

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H3

<400> 13545

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gtctcaagtc cgccgccagc ctccccgtcg cccgccgcag caccaggagc ctcggaacg 180  
tcagcaacgg cggaaggatc cggatgcattg aggtgtggcc gggctacggc aaccagaagt 240  
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<210> 13546

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B7

<400> 13546

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ctccccgtcg cccgccgcag caccaggagc ctcggaacg tcagcaacgg cggaaggatc 180

cggatgcacgc aagtgtggcc ggcctacggc aacaagaagt tcgagacgct gtcgtacctg 240  
 ccgncgctgt cgacggacga cctgctgaaa caggtggact acctgctgcg caacggctgg 300  
 atacccctgcc tcgagt 316

<210> 13547  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3060-028-Q1-K1-D3  
  
 <400> 13547

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 ctccccatcg cccgccgctc ctccagaagc ctccggaacg tcagcaacgg cggaaggatc 180  
 cggatgcacgc aggtgtggcc ggcctactgc aacaagaagt tcgagacgct gtcgtacctg 240  
 ccgncgctgt cgacggacga cctgctgaag caggtggact acctgctgcg caacggctgg 300  
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 tgctacta 368

<210> 13548  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3060-041-Q1-K1-G7  
  
 <400> 13548

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 agtgcggcgt gcgccagccg ctgcccgctg tgccgctgtt cgagaggctg gccgacctgc 240  
 agtcggcgcc cgcgtccgtg gagcgctctt tctcgggtga ctggtacatg gaccggatca 300  
 agggcaagca gcaagtcacg gtcggctact ccgactccgg caaggacgcc ggccgncgtg 360



ccgcggcgtg gcagctgtac ag

382

<210> 13549

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G11

<400> 13549

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gcatgcaccc gccggtctct cccaagcccg agtggcgcaa gctcatggac gagatggcgg 120

tcgtggccac ggaggagtac cgctcggtcg tcgtcaagga gccgcgcttc gtcgagtact 180

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<210> 13550

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C11

<400> 13550

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agagctccac agttcgtctg gttccaaagt taccaagtat tacatagaat tctggaagca 180

aattcctcca aacgagccct accgggtgat actaggccat gtaagggaca agctgtacaa 240

cacacgcgag cgtgctcgcc atctgctggc ttctggagtt tctgaaattt cagcggaatc 300

gtcatttacc agtatcgaag agttccttga gccacttgag ctgtgctaca aatcactgtg 360

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<210> 13551

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-B6

<400> 13551

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cccctacatc atctccatgg cgacggcccc ctcggaactg ctcgccgtag agctcctgca 180  
gcgcgagtgc ggcgtgcgcc agccgctgcc cgtggtgccg ctgttcgaga ggctggccga 240  
cctgcagtgc ggcgcccggt ccgtggagcg cctcttctcg gtggactggt acatggaccg 300  
gatcaagggc aagcagcagg tcatggtcgg ctactccgac tccggcaagg acgccggccg 360  
nctgtccgcg gcgtggcagc tgtacagggc gcangaggag atggcgcgang tggccaagcg 420  
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<210> 13552

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13552

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ctcctgcgcc aggtgttcac gttegggctc tccctggtga agctggacat ccggcaggag 180  
tcggagcggc acaccgacgt gatcgacgcc atcaccacgc acctcggcat cgggtcgtac 240  
cgcgagtggc ccgaggacaa gaagcaagaa tggtgtgtgt ccgagctgcg aagcaagcgc 300  
ccgtgtctgc ccccgacct tccccagacc gacgagatcg ncgacgtcat cggcgcgttc 360  
cacgtinctg cggagcttcc gcccgacagc ttcggcccct acatcatctc catggcgacg 420  
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<210> 13553

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G7

<400> 13553

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gttccttgag ccaattgagc tgtgctacaa atcactgtgt gactgcggcg acaaggccat 180

cgcggacggg agcctcctgg acctcctgcy ccagggtgtc acgttcgggc tctccctggt 240

gaagctggac atccggcagg agtcggagcy gcacaccgac gtgatcgacg ccatcaccac 300

gcacctcggc atcgggtcgt accgcgagtg gcccaggagc aagaggcagg agtggctgct 360

gtcggagctg caaggcaagc gcccgttggt gcccccgga 399

<210> 13554

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E11

<400> 13554

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tatgcttgct ggccagaatg atggctgcaa acttgtagat cgatcagatt gaagagctga 120

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acagttcgtc tggttccaaa gttaccaagt attacataga attctggaag caaattcctc 240

caaacgagcc ctaccgggtg atactaggcc atgtaaggga caagctgtac aacacacgcg 300

agcgtgctcg ccatctgctg gcatctggag tttctgaaat ttcagcggaa tcgtcattta 360

ccagtatcga agagttcctt gagccacttg agctgtgcta caaatcactg tgtgactgcy 420

gcgac 425

<210> 13555

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F9

<400> 13555

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cgcgag 426

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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gctcagggac aaatacgtgg agacacagca gcttctnctn cagatcgctg ggcacaagga 420  
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<210> 13557  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3060-009-Q1-K1-C3  
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<210> 13558  
<211> 413  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 13558

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<210> 13559  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H6

<400> 13559

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cgcgcagctc cgtcagctgg tcccaggcaa ggtctccgag gacgacaagc tcatcgagta 180  
cgatgcgctg ctgctcgacc gtttctcaa catccttcag gacctccacg ggcctagcct 240  
tcgcgaattt gtccaggagt gctacgaggt atcggccgac tacgagggca aaggagacac 300  
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388

<210> 13560

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-G8

<400> 13560

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gatgcgctgc tcgtcgaccg cttcctcaac atccttcagg acctccacgg gcctagcctt 240

cgcgaatttg tccaggagtg ctacgaggta tcggccgact acgagggcaa aggagacacg 300

acgaagctgg gcgagctcgg cgccaagctc acggggctgg cccctgccga cgccatcctc 360

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gcgcaccgnc gncgcaacag caaactcaa 449

<210> 13561

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E2

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cgatgcgctg ctgcgtgacc gttcctcaa catccttcag gacctccacg ggctagcct 240

tcgcgaattt gtccaggagt gctacgaggc atcgccgac tacgagggca aaggagacac 300

gacgaagctg ggcgagctcg gcgccaagct cacggggctg gccctgccg acgccatcct 360

cgtggcgagc tccatcctgc acatgctcaa cctcgccaac ctggccgagg aggtgcagat 420

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431

<210> 13562

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-H9

<400> 13562

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ctcaacctcg ccaacctggc cgaggaggtg cagatcgcg accgncgccg caacagcaaa 180

ctcaagaaag gtggcttcgc cgacgaaggc tccgccacca ccgagtccga catcgaggag 240

acgctcaagc gcctcgtgtc cgaggtcggc aagtcccccg aggaggtgtt cgaggcgctc 300

aaga 304

<210> 13563

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F11

<400> 13563

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<210> 13564

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-C8